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|----------------------------|---|----------------------------|---|
| Catalog Number: | GT15004 | Host: | Goat |
| Product Type: | Affinity purified | Species Reactivity: | Rat, Mouse |
| Immunogen Sequence: | Purified, NS0-derived, recombinant rat glial cell-line derived neurotrophic factor soluble receptor alpha 1 (rrGFR α -1). | Format: | Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose |
| Applications: | Immunohistochemistry: 5 μ g/mL slide-mounted sections, 10 - 15 μ g/mL on paraffin-embedded tissues, 1-2 μ g/mL free-floating sections Western Blot: 0.1 – 0.2 μ g/mL ELISA: 0.5 – 1.0 μ g/mL | | |

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

References: [Adrianna Kalous, Peregrine B. Osborne, Janet R. Keast. Spinal cord compression injury in adult rats initiates changes in dorsal horn remodeling that may correlate with development of neuropathic pain.](#) The Journal of Comparative Neurology, Volume 513 Issue 6, Pages 668 - 684. Published Online: 23 Feb 2009. Copyright © 2010 Wiley-Liss, Inc., A Wiley Company

[Toshihiro Uesaka, Sanjay Jain, Shigenobu Yonemura, Yasuo Uchiyama, Jeffrey Milbrandt, and Hideki Enomoto. Conditional ablation of GFR alpha1 in postmigratory enteric neurons triggers unconventional neuronal death in the colon and causes a Hirschsprung's disease phenotype.](#) Development 134, 2171-2181 (2007) doi:10.1242/dev.001388

Application Notes

Specificity:

Based on Western blot results, this antibody shows approximately 10% cross-reactivity with rhGFR α -2 and no cross-reactivity with rmRet and rhGFR α -3.

Immunohistochemistry:

Antiserum was used on fixed tissue. This antibody can be used with the appropriate secondary reagents to detect rat GDNF alpha-1 (GFR alpha-1) on tissues dissected from animals that were fixed by vascular perfusion with 4% paraformaldehyde/PBS (pH 7.4) and followed by perfusion with a 10% sucrose solution in 0.1 M phosphate buffer (pH 7.2). This antibody was found to work equally well on sections of frozen as well as paraffin-embedded tissues. Detection of labeling on cells and tissues may be done by employing either fluorescent or non-fluorescent enzymatic protocols. *Additional prolonged post-fixation of tissues in 4% paraformaldehyde may mask the GDNF alpha 1 antigen.*

ELISA:

This antibody can be used at 0.5 - 1.0 μ g/mL with the appropriate secondary reagents to detect rat GFR α -1. The detection limit for rrGFR α -1 is approximately 0.5 ng/lane. **Western blot:** This antibody can be used at 0.1 - 0.2 μ g/mL with the appropriate secondary reagents to detect rat GFR α -1. The detection limit for soluble rrGFR α -1 is approximately 20 ng/lane under non-reducing and reducing conditions.

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Images: Ret and GFRA1 are co-expressed in germ cells early in spermatogenesis. At P7 RET and GFRA1 co-localize in the same germ cells (yellow membrane staining). Scale bar: 25 μ m.

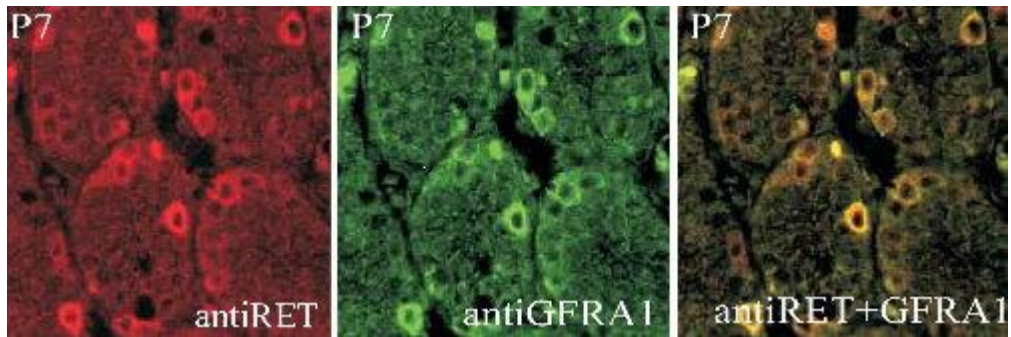
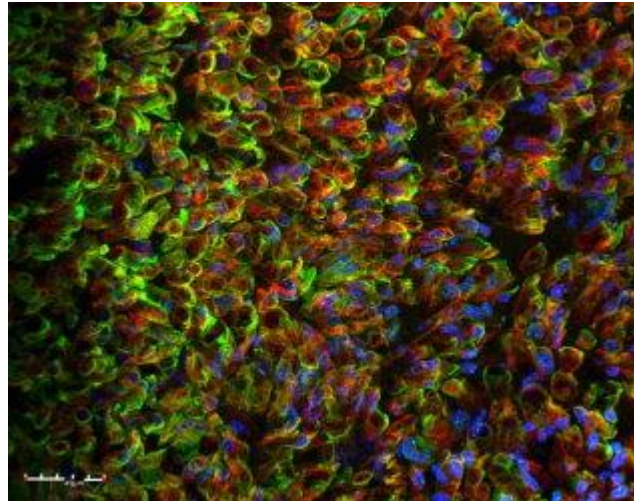


Image: GDNF R1 Alpha staining of mouse sciatic nerve cross section. Tissue stained with GDNF R1 Alpha labeled with Cy3 (red); the antibody Laminin with 488 (green) and counterstained DAPI (Blue).



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Neurotrophin and Growth Factor Antibodies

| Name | Catalog # | Type | Species | Applications | Size | Price |
|--|-----------|-------------|----------------|-----------------------|-----------------------------------|----------------|
| pan Akt/KinaseB | MO15107 | Mouse IgG | H; M; R | IHC; WB; FC; E | 100 ug | \$255 |
| Angiopoietin-1 (ANG-1) | RA26000 | Rabbit IgG | H; M; Rb | IHC; WB | 100 ul | \$375 |
| Artemin | GT15066 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| Artemin | MO15021 | Rat IgG | M | WB; E | 500 ug 100 ug | \$325 \$89 |
| Artemin | RA19009 | Rabbit IgG | H | WB | 100 ul | \$250 |
| BDNF | CH15000 | Chicken IgY | H; R | IHC; WB; E | 100 ug | \$365 |
| BDNF | GT41014 | Goat IgG | H | IHC; E | 100 ug 100 ug Blocking Peptide | \$250 \$145 |
| BDNF | MO15115 | Mouse IgG | H | IHC; WB; E | 500 ug | \$325 |
| BDNF- Allophycocyanin Labeled | FC15019 | Mouse IgG | H | FC | 100 Tests | \$275 |
| BMP-1/PCP | GT15120 | Goat IgG | H | ICC; WB; IP; E | 100 ug | \$365 |
| BMP-2 Inducible Kinase (BIKE) | RA30004 | Goat IgG | H | IHC | 50 ug | \$425 |
| BMP-2/4 | GT15053 | Goat IgG | H; R | ICC; IHC; WB; E | 100 ug | \$365 |
| BMP-3 | MO15038 | Mouse IgG | H | WB; E | 50 ug 100 ug | \$115 \$175 |
| BMP-3b/GDF-10 | GT15166 | Goat IgG | H | IHC; WB; E | 100 ug | \$365 |
| BMP-4 | RA30035 | Rabbit IgG | H | IHC | 50 ug | \$425 |
| BMP-4 | MO20038 | Mouse IgG | H | IHC; WB | 100 ul | \$195 |
| BMP-5 | GT15054 | Goat IgG | H; R | ICC; IHC; WB; E | 100 ug | \$365 |
| BMP-7 | MO15079 | Mouse IgG | H; R | IHC | 500 ug 100 ug | \$325 \$89 |
| BMP-8 | GT15161 | Goat IgG | H; R | IHC; WB; FC; IP; E | 100 ug | \$365 |
| BMP-10 | RA30003 | Rabbit IgG | H | IHC; E | 50 ug | \$425 |
| CNTF | GT15028 | Goat IgG | R | IHC; WB; E | 100 ug | \$365 |
| CNTF Receptor Alpha | GT15029 | Goat IgG | R | IHC; WB; E | 100 ug | \$365 |
| CREB | MO18006 | Mouse IgG | H; M; Pr; R | IF; WB; FC | 100 ul | \$275 |
| Cripto | RA25057 | Rabbit IgG | H | WB | 100 ul | \$285 |
| CYR61 | RA25061 | Rabbit IgG | H; R | IHC; WB | 100 ul | \$285 |

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|--|-----------|------------|---------|-----------------|------------------|----------------|
| EGF | MO15063 | Mouse IgG | H | IHC; WB; E | 100 ug | \$105 |
| FGF-2 | MO27001 | Mouse IgM | H | WB; IP; E | 500 ug | \$175 |
| FGF-R2- Allophycocyanin Labeled | FC15015 | Mouse IgG | H | FC | 100 Tests | \$235 |
| FGF R3-Fluorescein Labeled | FC15006 | Mouse IgG | H; R | FC | 100 Tests | \$235 |
| FGF R5 beta | GT15093 | Goat IgG | M; R | ICC; IHC; WB; E | 100 ug | \$365 |
| FGF-9 | GT15228 | Goat IgG | H | IHC; WB; E | 100 ug | \$365 |
| FOXD3 | RA25044 | Rabbit IgG | H; M | IHC; WB | 100 ug | \$365 |
| GDF-3 | GT15176 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| GDF-5 | GT15177 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| GNDF | GT15007 | Goat IgG | H; R | IHC; WB; E | 100 ug | \$365 |
| GNDF Biotinylated | GT15007B | Goat IgG | H; R | IHC; WB | 50 ug | \$385 |
| GNDF Receptor Alpha 1 | GT15004 | Goat IgG | H; M; R | ICC; IHC; WB; E | 100 ug | \$365 |
| GNDF Receptor Alpha 1 | GT15108 | Goat IgG | H | IHC; WB; E | 100 ug | \$345 |
| GNDF Receptor Alpha 1 | MO15093 | Mouse IgG | R | IHC; WB; E | 500 ug | \$325 |
| GNDF Receptor Alpha 1 Biotinylated | GT15004B | Goat IgG | H; R | IHC; WB | 50 ug | \$385 |
| GNDF Receptor Alpha 2 | GT15005 | Goat IgG | H; M; R | ICC; IHC; WB; E | 100 ug | \$365 |
| GNDF Receptor Alpha 2 Biotinylated | GT15005B | Goat IgG | H; R | IHC; WB | 50 ug | \$385 |
| GNDF Receptor Alpha 3 | RA30017 | Rabbit IgG | H | IHC; WB | 50 ug | \$425 |
| GNDF Receptor Alpha 3 | GT15123 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| GNDF Receptor Alpha 4 | GT15083 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| HGF | GT15204 | Goat IgG | H | IHC; WB; E; NB | 100 ug | \$365 |
| IGF-I R/CD221 | MO15074 | Mouse IgG | H | IHC; WB | 500 ug 100 ug | \$325 \$155 |
| IGF-I R/CD221- Fluorescein Labeled | FC15010 | Mouse IgG | H; R | FC | 100 Tests | \$235 |

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| Name | Catalog # | Type | Species | Applications | Size | Price |
|--|-----------|------------|---------|-----------------------|--------|-------|
| IGF-II/C11orf43 | GT15182 | Goat IgG | H | IHC; WB; E | 100 ug | \$345 |
| IGF-II/C11orf43 | GT15182 | Goat IgG | H | IHC; WB; E | 100 ug | \$345 |
| IGFBP-3 | MO15075 | Mouse IgG | H | IHC; WB | 500ug | \$325 |
| IGFBP-4 | GT15158 | Goat IgG | H | IHC; WB; E | 100 ug | \$365 |
| IGFBP-5 | GT15183 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| IGFBP-5 | MO15091 | Mouse IgG | M | WB; E | 500 ug | \$325 |
| IL-6 (Rat) | GT15106 | Goat IgG | R | IHC; WB; E | 100 ug | \$365 |
| Jagged1 | GT15171 | Goat IgG | H | IHC; WB; FC; IP; E | 100 ug | \$365 |
| Kidins220 (ARMS) | RA19019 | Rabbit IgG | H; M | WB | 100 ul | \$195 |
| phospho-Kidins220 (ARMS) | RA19020 | Rabbit IgG | H; M | WB | 100 ul | \$195 |
| c-Kit/CD117 | RA14132 | Rabbit IgG | H; M; R | IF; IHC; FC | 100 ul | \$350 |
| Lingo-1 | GT15170 | Goat IgG | H; M; R | IHC; WB; E | 100 ug | \$365 |
| MAG/Siglec 4a | GT15152 | Goat IgG | R | IHC; WB; E | 100 ug | \$365 |
| cMet | MO20020 | Mouse IgG | H; R | IHC | 100 ul | \$180 |
| MuSK | GT15146 | Goat IgG | R | WB; E | 100 ug | \$365 |
| NGF-b | GT15014 | Goat IgG | R | ICC; IHC; WB | 100 ug | \$365 |
| p75/NGF Receptor | MO15047 | Mouse IgG | H | IHC; WB; E | 100 ug | \$255 |
| p75/NGF Receptor | GT15057 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| NOGO Receptor | GT15154 | Goat IgG | H | IHC; WB; E | 100 ug | \$365 |
| NT-3 | GT15000 | Goat IgG | H; R | IHC; WB; E | 100 ug | \$345 |
| NT-3 | GT15128 | Goat IgG | H | WB; E | 100 ug | \$345 |
| NT-4 (human) | GT15001 | Goat IgG | H | IHC; WB; E | 100 ug | \$365 |
| Neuregulin-3 (NRG3) | GT15220 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| Neuritin | GT15022 | Goat IgG | H; R | ICC; IHC; WB; E | 100 ug | \$365 |
| Neurotensin Receptor 3 (NTS3)/Sortilin | GT15237 | Goat IgG | H | IHC; WB; E; NB | 100 ug | \$365 |
| Notch1 | RA19069 | Rabbit IgG | H; R | IHC | 50 ug | \$215 |
| Notch2 | GT15124 | Goat IgG | R | IHC; WB; FC; E | 100 ug | \$365 |
| Notch3 | RA19070 | Rabbit IgG | H; R | IHC; WB | 100 ug | \$215 |
| OMgp | GT15200 | Goat IgG | H | WB; E | 100 ug | \$365 |

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|--|-----------|------------|----------------------|----------------|-----------|-------|
| PCNA | MO20014 | Mouse IgG | H; M; Pr; R | IHC; WB; FC | 100 ul | \$75 |
| PD-ECGF | GT15181 | Goat IgG | H | IHC; WB; E | 100 ug | \$365 |
| PDGF R Alpha/CD140A | GT15150 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| PDGF R Beta/CD140B | GT15065 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| PDGF-C | GT15151 | Goat IgG | H | IHC; WB; E | 100 ug | \$365 |
| PIGF | RA26003 | Rabbit IgG | R | IHC; WB | 100 ul | \$375 |
| PTGDS | RA25023 | Rabbit IgG | H | WB | 100 ul | \$295 |
| Persephin | MO15086 | Mouse IgG | H | IHC; WB | 100 ug | \$215 |
| RAGE | MO15029 | Rat IgG | M; R | IHC; WB; E | 500 ug | \$325 |
| RAGE | GT15030 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| Ret | GT15002 | Goat IgG | M; R | IHC; WB; E | 100 ug | \$365 |
| Ret (C-Terminus Fused) | MO15089 | Mouse IgG | H; R | WB; E | 500 ug | \$325 |
| Ret Biotinylated | GT15002B | Goat IgG | M; R | IHC; WB | 50 ug | \$395 |
| Ret-Fluorescein Labeled | FC15016 | Mouse IgG | H | FC | 100 Tests | \$275 |
| Ret-Allophycocyanin Labeled | FC15017 | Mouse IgG | H | FC | 100 Tests | \$275 |
| Ret-Phycoerythrin Labeled | FC15018 | Mouse IgG | H | FC | 100 Tests | \$275 |
| RGM-A | GT15169 | Sheep IgG | M | IHC; FC; E | 100 ug | \$365 |
| RGM-B | GT15212 | Sheep IgG | M | IHC; FC; E | 100 ug | \$365 |
| RHEB | RA30052 | Rabbit IgG | H; M; R | IHC; WB | 50 ug | \$365 |
| SMAD1 | GT15219 | Goat IgG | H; R | IHC; WB; E | 100 ug | \$365 |
| SMAD3 | RA30033 | Rabbit IgG | B; Ch; H; M; P; R | IHC; WB; E | 50 ug | \$365 |
| SMAD5 | GT15192 | Goat IgG | H; M; R | IHC; WB; E | 100 ug | \$365 |
| TGF beta | MO20012 | Mouse IgM | H | IHC | 100 ul. | \$150 |
| TGF beta 1 | MO15106 | Mouse IgG | H; M; Pr; R | IHC; WB; FC; E | 500 ug | \$325 |
| TGF beta RI (type1) | MO20011 | Mouse IgM | H | IHC | 100 ul. | \$250 |
| TGF beta RII (type2) | GT15073 | Goat IgG | H | IHC; WB; E | 100 ug | \$345 |
| TGF-beta3 | GT15074 | Goat IgG | H | IHC; WB; E; NB | 100 ug | \$365 |

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|---|-----------|------------|---------|--------------|------------------|---------------|
| phospho-TrkA(Tyr490) | RA18018 | Rabbit IgG | R | WB; IP | 100 ul | \$370 |
| TrkA | FC15012 | Mouse IgG | H; R | FC | 100 Tests | \$275 |
| TrkA | FC15021 | Mouse IgG | H; R | FC | 100 Tests | \$275 |
| TrkA | MO15018 | Mouse IgG | H | WB; E | 500 ug 100 ug | \$325 \$89 |
| TrkA | MO15034 | Mouse IgG | H | FC; E | 100 ug | \$205 |
| TrkA | GT15153 | Goat IgG | H | IHC; WB; E | 100 ug | \$365 |
| TrkB | MO15025 | Rat IgG | M | IHC; WB; E | 500 ug | \$325 |
| TrkB | GT15080 | Goat IgG | M | IHC; WB; E | 100 ug | \$365 |
| TrkB | MO15042 | Mouse IgG | H | WB; FC; E | 500 ug | \$325 |
| TrkC | MO15000 | Mouse IgG | H; R | IHC; WB; E | 500 ug | \$325 |
| TrkC | FC15020 | Goat IgG | H; R | FC | 100 Tests | \$350 |
| VEGF | MO15067 | Mouse IgG | H | IHC; WB; E | 100 ug 500 ug | \$89 \$325 |
| VEGF R2 (FLK1/KDR) | RA25011 | Rabbit IgG | H; M; R | IHC; WB | 100 ul | \$385 |
| VEGF R3 (Flt-4) | MO20013 | Mouse IgG | H | IHC | 100 ul | \$150 |
| Wnt1 Inducible Signaling Pathway Protein 3/WISP3 | RA30026 | Rabbit IgG | H | IHC; E | 50 ug | \$365 |
| Wnt1/Int-1 | RA30028 | Rabbit IgG | H | IHC | 50 ug | \$365 |
| Wnt2b | RA30030 | Rabbit IgG | H | IHC | 50 ug | \$365 |
| Wnt8a | RA30029 | Rabbit IgG | H | IHC | 50 ug | \$365 |
| Wnt10a | RA30027 | Rabbit IgG | H | IHC | 50 ug | \$365 |

Neuron-Glial Expressed Recombinant Proteins

| Name | Catalog # | Type | Species | Applications | Size | Price |
|-----------------|-----------|---------|---------|--------------|---------------|----------------|
| Artemin | PR27091-5 | Protein | H | | 5 ug 20 ug | \$75 \$175 |
| BDNF | PR27080-2 | Protein | H | | 2 ug 10 ug | \$75 \$175 |
| BDNF, CF | PR15020CF | Protein | H | | 5 ug 25 ug | \$220 \$660 |
| CNTF | PR27005-5 | Protein | H | | 5 ug 20 ug | \$75 \$175 |
| GDNF | PR27022-2 | Protein | H | | 2 ug 10 ug | \$75 \$175 |

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| Name | Catalog # | Type | Species | Applications | Size | Price |
|---|---------------|---------|---------|--------------|----------------|----------------|
| GDNF (Rat) | PR15008 | Protein | R | | 10 ug 50 ug | \$285 \$940 |
| GDNF (Rat), Carrier Free | PR15008CF | Protein | R | | 10 ug 50 ug | \$285 \$940 |
| Glial Filament Protein | PR27089 | Protein | B | | 2 ug 10 ug | \$75 \$175 |
| MAG/Siglec4a Fc Chimera, CF | PR15078-100 | Protein | R | | 100 ug | \$325 |
| MANF/ARMET, CF | PR15079CF | Protein | H; M; R | | 50 ug | \$325 |
| Midkine | PR27145-5 | Protein | H | | 5 ug 20 ug | \$85 \$185 |
| NGF-b, Human, CHO | PR27002-5 | Protein | H | | 5 ug 20 ug | \$75 \$175 |
| NGF-b, Mouse | PR27003-5 | Protein | M | | 5 ug 20 ug | \$75 \$175 |
| NGF-b, NSO Derived | PR15083 | Protein | H; M; R | | 100 ug | \$285 |
| NGF-b, NSO Derived, CF | PR15084CF | Protein | H; M; R | | 100 ug | \$285 |
| NOGO A | PR15067 | Protein | R | | 50 ug | \$320 |
| Neurofascin | PR15066 | Protein | H | | 50 ug | \$320 |
| Neurotensin Receptor 3 (NTS3)/Sortilin, Carrier Free | PR15080CF-50 | Protein | H; R | | 50 ug | \$315 |
| Noggin/Fc Chimera, Carrier Free | PR15070CF-50 | Protein | H | | 50 ug | \$315 |
| OMgp | PR15054-25 | Protein | H | | 25 ug | \$315 |
| PEDF | PR27157-5 | Protein | H | | 5 ug 20 ug | \$85 \$185 |
| PGP9.5 | PR27120-2 | Protein | H | | 2 ug 10 ug | \$75 \$175 |
| ProNGF | PR27004-2 | Protein | H | | 2 ug 10 ug | \$75 \$175 |
| Ret | PR15043-50 | Protein | H | | 50 ug | \$315 |
| Ret, CF | PR15043CF-10 | Protein | H | | 10 ug | \$315 |
| Ret/FC Chimera | PR15049-100 | Protein | M | | 100 ug | \$340 |
| Ret/FC Chimera, Carrier Free | PR15049CF-100 | Protein | M | | 100 ug | \$340 |

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| Name | Catalog # | Type | Species | Applications | Size | Price |
|-----------------------------------|--------------|---------|---------|--------------|----------------|---------------|
| S100A13, Carrier Free | PR15076CF-50 | Protein | H; R | | 50 ug | \$315 |
| S100B | PR27082-2 | Protein | H | | 2 ug 10 ug | \$75 \$155 |
| SMAD2 | PR27147-2 | Protein | H | | 2 ug 10 ug | \$85 \$185 |
| SMAD4 | PR27148-10 | Protein | H | | 10 ug 50 ug | \$85 \$185 |
| Slit1 | PR15075-50 | Protein | Ch; H | | 50 ug | \$315 |
| Slit2, CHO | PR15085-50 | Protein | Ch; H | | 50 ug | \$315 |
| Synaptaphilin (SNPH) | PR27081-2 | Protein | H | | 2 ug 10 ug | \$75 \$155 |
| TrkA/Chimera, Carrier Free | PR15051CF-50 | Protein | R | | 50 ug | \$325 |
| TrkA/Chimera, Carrier Free | PR15050CF-50 | Protein | H | | 50 ug | \$325 |
| TrkB | PR15052-50 | Protein | H | | 50 ug | \$325 |
| TrkB, Carrier Free | PR15052CF-50 | Protein | H | | 50 ug | \$325 |
| Vimentin | PR27081-2 | Protein | H | | 2 ug 10 ug | \$75 \$155 |

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