



## Tyrosine Hydroxylase

## Data Sheet

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<b>Catalog Number:</b>	RA22135	<b>Host:</b>	Rabbit
<b>Product Type:</b>	Rabbit Polyclonal	<b>Species Reactivity:</b>	Human, rat, mouse
<b>Immunogen Sequence:</b>	Full length human tyrosine hydroxylase as expressed in and purified E. coli	<b>Format:</b>	Purified antibody at 1 mg/ml in 50% glycerol plus 5mM of Sodium Azide
<b>Entrez:</b>	7054	<b>UniProt:</b>	P07101
<b>Applications:</b>	Immunofluorescence: 1:1,000 Immunohistochemistry: 1:1,000 Immunocytochemistry: 1:1,000 Western Blot: 1:5,000		

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

**Storage:** Antibody can also be aliquotted and stored frozen at -20° 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.

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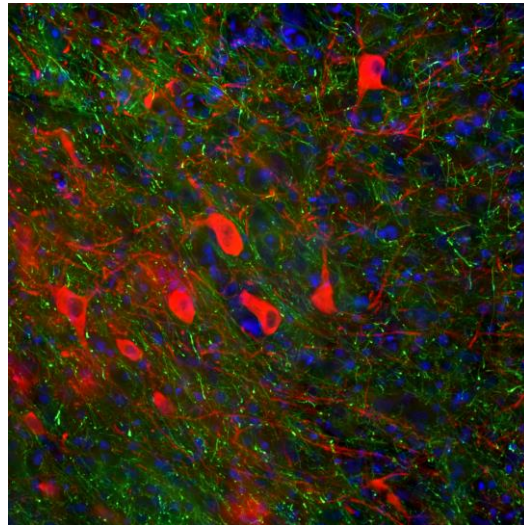
### Application Notes

#### Description/Data:

Tyrosine Hydroxylase (TH) is a vital enzyme in the generation of L-DOPA from the amino acid tyrosine. TH expression is restricted in the brain, but expressed highly in locations where it is found. TH antibody are useful in identifying chatecholaminergic neurons.

This antibody was made against full length human recombinant human tyrosine hydroxylase.

*Image: Immunofluorescent analysis of rat brain section stained with rabbit antibody to tyrosine hydroxylase, RA22135, dilution 1:10,000, in red and costained with mouse antibody to pNF-H, MO22187, dilution 1:1,000 in green. The blue is Hoechst staining of nuclear DNA. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with the above antibodies. This antibody stains the striatal TH expressing interneurons, while the pNF-H antibody labels axons from other neuronal cells.*



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