



Catalog Number:	RA19066	Host:	Rabbit
Product Type:	Affinity Purified	Species Reactivity:	Human, Rat, Mouse
Immunogen Sequence:	Synthetic peptide comprising residues 156-170 [PVL ^Y AWNDLGS ^R FWP] of the human Noggin protein.	Format:	Liquid Concentration of 1mg/ml in PBS containing 0.02% sodium azide.
Applications:	Western Blot: 1:1,000-1:2,000		
Publications:	<p>Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.</p> <p>Bachiller, D., Klingensmith, J., Kemp, C., Belo, J. A., Anderson, R. M., May, S. R., McMahon, J. A., McMahon, A. P., Harland, R. M., Rossant, J. and De Robertis, E. M. The organizer factors Chordin and Noggin are required for mouse forebrain development. <i>Nature</i> 403: 658-661, 2000.</p> <p>Valenzuela, D.M., Economides, A.N., Rojas, E., Lamb, T.M., Nunez, L., Jones, P., Ip, N.Y., Espinosa, R. III, Brannan, C.I., Gilbert, D.J., Copeland, N.G., Jenkins, N.A., Le Beau, M.M., Harland, R.M., and Yancopoulos, G.D., Identification of mammalian noggin and its expression in the adult nervous system. (1995) <i>J. Neurosci.</i> 15:6077-6084.</p> <p>Gong, Y., Krakow, D., Marcelino, J., Wilkin, D., Chitayat, D., Babul-Hirji, R., Hudgins, L., Cremers, C.W., Cremers, F.P.M., Brunner, H.G., Reinker, K., Rimoin, D.L., Cohn, D.H., Goodman, F.R., Reardon, W., Patton, M., Francomano, C.A., and Warman, M.L., Heterozygous mutations in the gene encoding noggin affect human joint morphogenesis. (1999) <i>Nat. Genet.</i> 21:302-304</p>		
Storage:	Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. Avoid repeated freeze-thaw cycles.		

Application Notes

Specificity

Sequence is 100% conserved in rat and mouse.

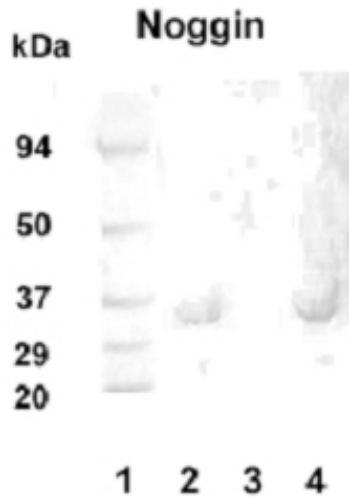
Description/Data:

Noggin was originally cloned based on its dorsalizing activity in *Xenopus* embryos and was subsequently found to be a BMP binding protein that antagonizes BMP bioactivities. Noggin is involved in numerous developmental processes, such as neural tube fusion and joint formation. The morphogenesis of organs is initiated by a down growth from a layer of epithelial stem cells.

Noggin mutations in unrelated families with proximal symphalangism (SYM1) and multiple synostoses syndrome (SYNS1) have been identified, which have multiple joint fusion as their principal defect. In the adult, Noggin is expressed in the central nervous system and in several adult peripheral tissues such as lung, skeletal muscle and skin.

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Western blot detection of Noggin in 20 ug of human hippocampus tissue lysate (lanes 2 and 4) with Noggin polyclonal at 1:1000 dilution followed by AP- conjugated secondary at 1:5000 dilution. MW marker lane 1. Peptide absorption control lane 3.

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