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Product datasheet for TA500116M

Noggin (NOG) Mouse Monoclonal Antibody [Clone ID: OTI1C1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1C1
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:40000, IHC 1:50, IF (1:100)
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant protein expressed in E.coli corresponding to amino acids 28-232 of human noggin
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23.7 kDa
Gene Name:	noggin
Database Link:	NP_005441 Entrez Gene 18121 MouseEntrez Gene 25495 RatEntrez Gene 9241 Human Q13253

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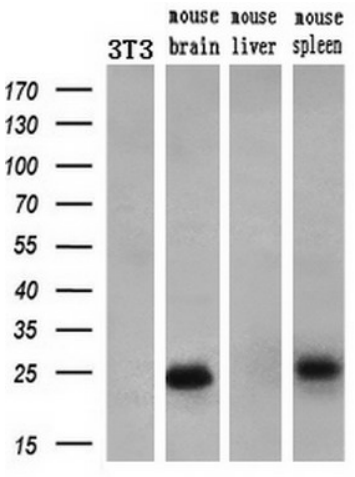
Background: Noggin is a secreted polypeptide which binds and inactivates members of the transforming growth factor-beta (TGF-beta) superfamily signaling proteins, such as bone morphogenetic protein-4 (BMP4). By diffusing through extracellular matrices more efficiently than members of the TGF-beta superfamily, it may have a principal role in creating morphogenic gradients. Noggin appears to have pleiotropic effect, both early in development as well as in later stages. The results of the mouse knockout of the ortholog suggest that noggin is involved in numerous developmental processes, such as neural tube fusion and joint formation. Recently, several dominant human NOG mutations in unrelated families with proximal symphalangism (SYM1) and multiple synostoses syndrome (SYNS1) were identified; both SYM1 and SYNS1 have multiple joint fusion as their principal feature, and map to the same region (17q22) as this gene. All of these mutations altered evolutionarily conserved amino acid residues. The amino acid sequence of this human gene is highly homologous to that of Xenopus, rat and mouse

Synonyms: SYM1; SYNS1; SYNS1A

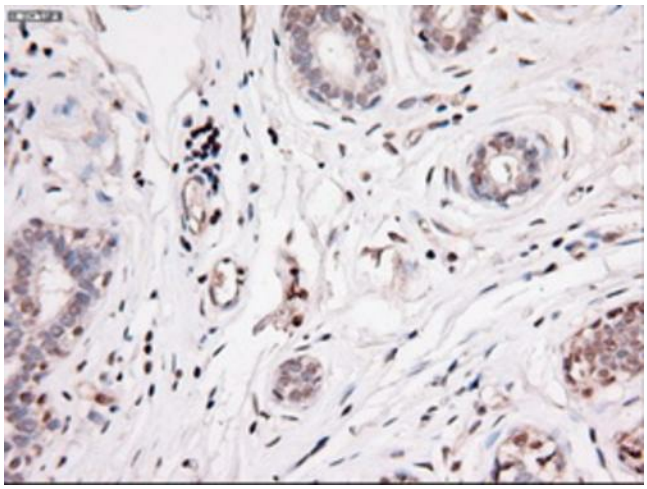
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: TGF-beta signaling pathway

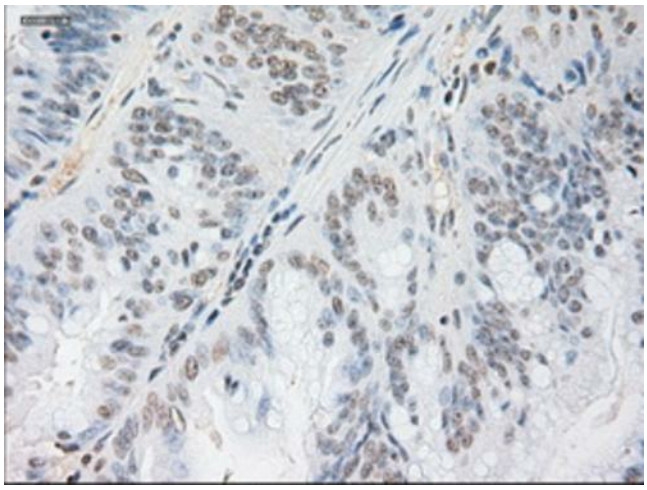
Product images:



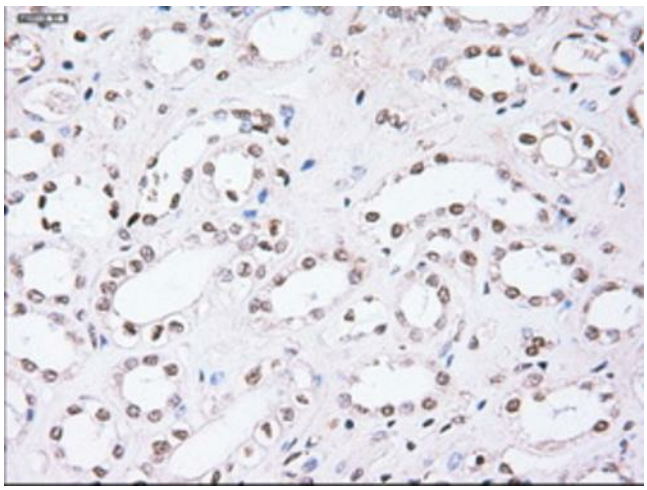
Western blot analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-Nog monoclonal antibody (1:200).



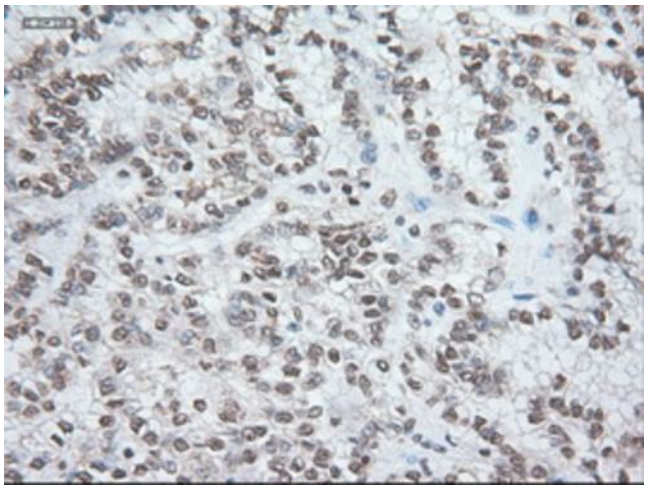
Immunohistochemical staining of paraffin-embedded breast within the normal limits using anti-Nog ([TA500116]) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



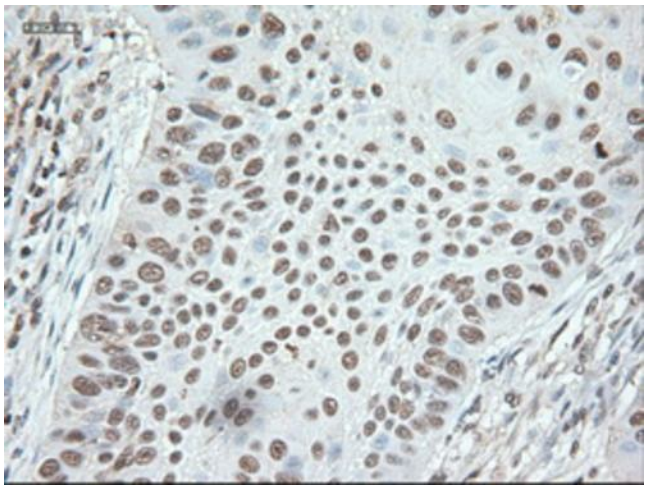
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon using anti-Nog ([TA500116]) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



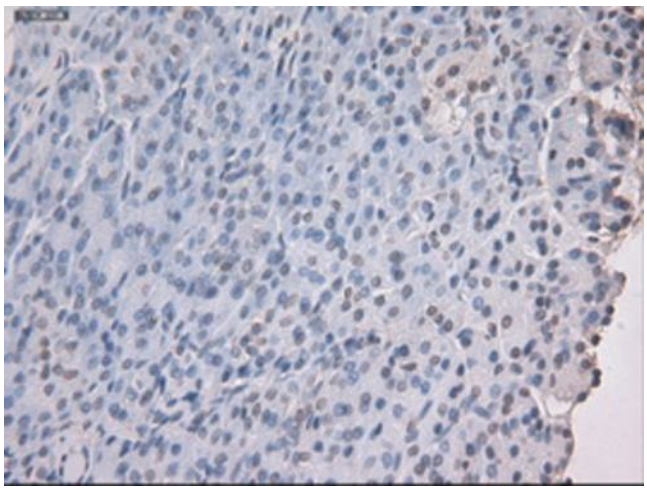
Immunohistochemical staining of paraffin-embedded kidney within the normal limits using anti-Nog ([TA500116]) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



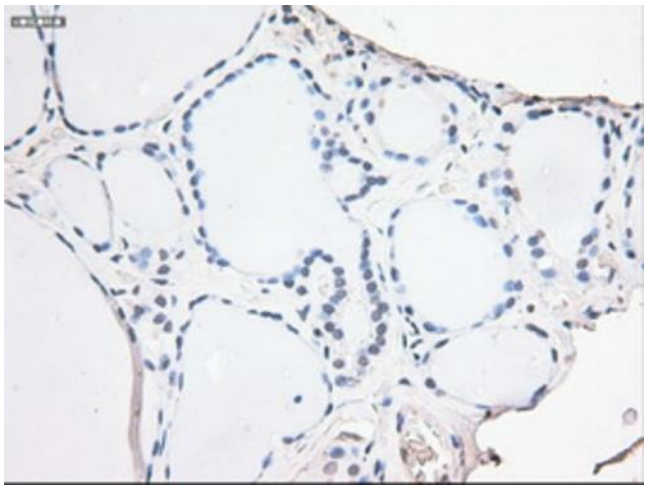
Immunohistochemical staining of paraffin-embedded Carcinoma of kidney using anti-Nog ([TA500116]) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



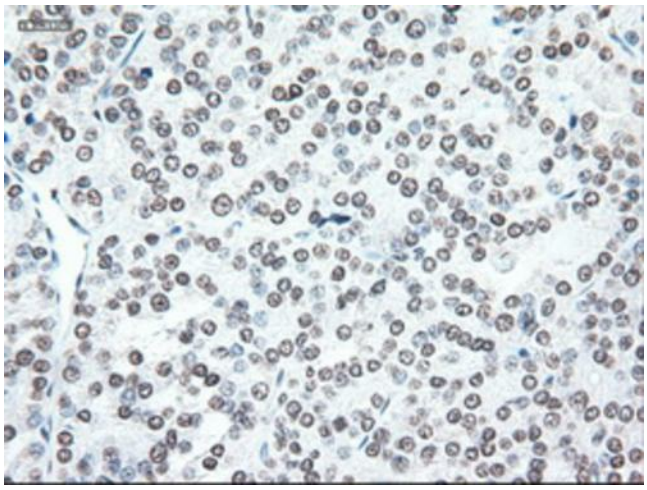
Immunohistochemical staining of paraffin-embedded Carcinoma of lung using anti-Nog ([TA500116]) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



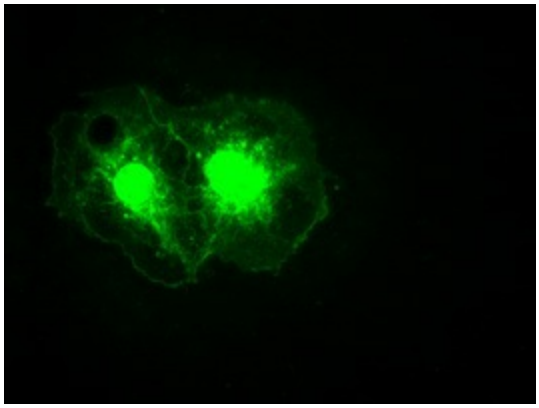
Immunohistochemical staining of paraffin-embedded pancreas within the normal limits using anti-Nog ([TA500116]) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded thyroid within the normal limits using anti-Nog ([TA500116]) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid using anti-Nog ([TA500116]) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-Nog mouse monoclonal antibody ([TA500116]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY Nog ([RC205020]).