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Product datasheet for TA500116

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
lsotype:	lgG2b
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:	<u>NP_005441</u> <u>Entrez Gene 18121 MouseEntrez Gene 25495 RatEntrez Gene 9241 Human</u> <u>Q13253</u>



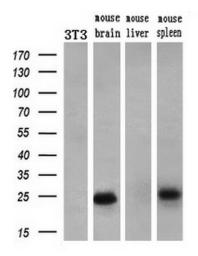
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GRIGENE Noggin (NOG) Mouse Monoclonal Antibody [Clone ID: OTI1C1] – TA500116

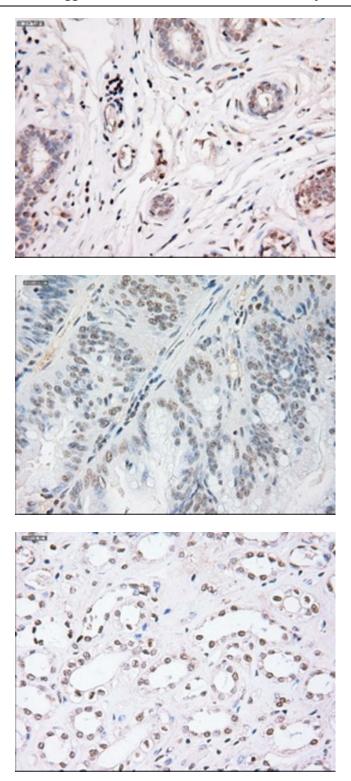
Background:Noggin is a secreted polypeptide which binds and inactivates members of the transforming
growth factor-beta (TGF-beta) superfamily signaling proteins, such as bone morphogenetic
protein-4 (BMP4). By diffusing through extracellular matrices more efficiently than members
of the TGF-beta superfamily, 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).

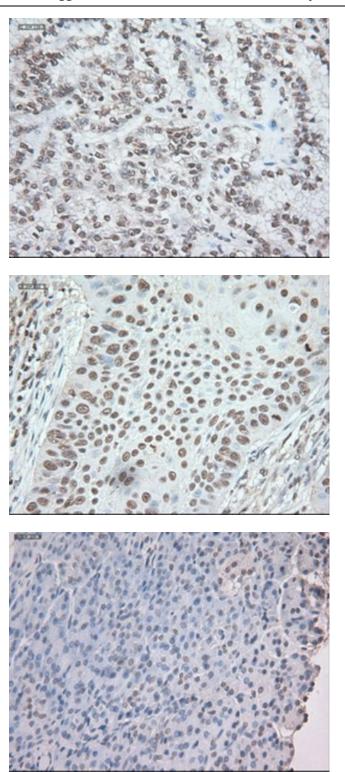
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Immunohistochemical staining of paraffinembedded breast within the normal limits using anti-Nog (TA500116) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded 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 paraffinembedded 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.

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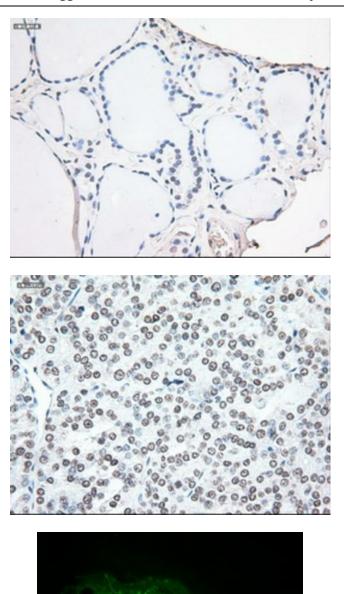


Immunohistochemical staining of paraffinembedded Carcinoma of kidney using anti-Nog (TA500116) mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Carcinoma of lung using anti-Nog (TA500116) mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

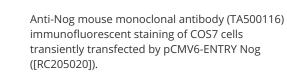
Immunohistochemical staining of paraffinembedded pancreas within the normal limits using anti-Nog (TA500116) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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Immunohistochemical staining of paraffinembedded 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 paraffinembedded Carcinoma of thyroid using anti-Nog (TA500116) mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



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