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Chordin Rabbit pAb

Catalog # AP96855

Product Information

Application	WB
Primary Accession	Q9H2X0
Other Accession	Q9H2X0
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102032
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Chordin
Epitope Specificity	412-490/951
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the chordin family. Contains 4 CHRD domains. Contains 4 VWFC domains.
SUBUNIT	Interacts with TWSG1 and/or BMP4
Post-translational modifications	Cleaved by tolloid proteases; cleavage participates to dorsoventral patterning during early development.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The patterning of the CNS relies on the interaction of multiple signaling molecules such as Sonic Hedgehog, Wnts, and BMPs and their antagonists Chordin and Noggin. At midgastrula, expression of Noggin overlaps that of Chordin. Chordin is a key developmental protein that dorsalizes early vertebrate embryonic tissues by binding to ventralizing TGF-beta-like bone morphogenetic proteins and sequestering them in latent complexes. The gene which encodeschordin maps to human chromosome 3q27. Noggin is a secreted protein that binds and inactivates members of the transforming growth factor-beta (TGF-beta) superfamily of signaling proteins, such as BMP-2,4,7. The gene which encodes noggin maps to human chromosome 17q22.

Additional Information

Gene ID	8646
Other Names	Chd; CHRD_HUMAN; CHRD; CHRD_MOUSE; CHRD_RAT; chordin
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CHRD
Function	Dorsalizing factor. Key developmental protein that dorsalizes early vertebrate embryonic tissues by binding to ventralizing TGF-beta family bone morphogenetic proteins (BMPs) and sequestering them in latent complexes (By similarity).
Cellular Location	Secreted.
Tissue Location	Expressed at the highest level in liver.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.