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TWSG1 Rabbit pAb

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Catalog # AP54566

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9GZX9
Predicted	Rat, Pig, Dog, Human, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25017
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TWSG1
Epitope Specificity	151-223/223
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Twisted Gastrulation Protein 1(TWSG1) is a secreted BMP binding protein structurally related to the BMP antagonists Chordin and Noggin. TSG can inhibit BMP activity by binding directly to BMP proteins thereby preventing BMPs from binding to their receptors. It can act either as a BMP4 agonist or antagonist (depending on the specific biochemical environment) by binding to the BMP4/Chordin complex.

Additional Information

Gene ID	57045
Other Names	Twisted gastrulation protein homolog 1, TWSG1, TSG
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	TWSG1

Synonyms	TSG
Function	May be involved in dorsoventral axis formation. Seems to antagonize BMP signaling by forming ternary complexes with CHRD and BMPs, thereby preventing BMPs from binding to their receptors. In addition to the anti-BMP function, also has pro-BMP activity, partly mediated by cleavage and degradation of CHRD, which releases BMPs from ternary complexes. May be an important modulator of BMP-regulated cartilage development and chondrocyte differentiation. May play a role in thymocyte development (By similarity).
Cellular Location	Secreted.

Background

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