



Rabbit Anti-TWSG1 antibody

SL11606R

Product Name:	TWSG1
Chinese Name:	扭转原肠胚形成同源蛋白1抗体
Alias:	PSEC0250; TSG; TSG1; twisted gastrulation homolog 1; Twisted gastrulation protein; TWSG1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	22kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TWSG1:151-223/223
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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

Subunit:

Interacts with CHRD and BMP4. This interaction enhances CHRD/BMP4 complex formation. Interacts with BMP7

Subcellular Location:

Secreted

Similarity:

Belongs to the twisted gastrulation protein family.

SWISS:

Q9GZX9

Gene ID:

57045

Database links:

[Entrez Gene: 57045](#)Human

[Entrez Gene: 705804](#)Rhesus monkey

[Omim: 605049](#)Human

[SwissProt: Q9GZX9](#)Human

[Unigene: 514685](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.