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Datasheet for ABIN7320390  
**TWSG1 Protein (His tag)**

1 Image

### Overview

Quantity:	100 µg
Target:	TWSG1
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TWSG1 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Mouse TWSG1/TSG Protein (His Tag)
Sequence:	Met 1-Phe 222
Characteristics:	A DNA sequence encoding the mouse TWSG1 (Q9EP52) (Met 1-Phe 222) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 93 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

### Target Details

Target:	TWSG1
Alternative Name:	TWSG1/TSG ( <a href="#">TWSG1 Products</a> )
Background:	Background: TWSG1 belongs to the twisted gastrulation protein family. TWSG1 from different species are functionally equivalent. In contrast to Drosophila where TWSG1 expression is limited to early embryos, expression of TWSG1 is found throughout mouse and human

## Target Details

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development. Mutations in the TWSG1 gene cause at least some of the cells on the dorsal half of the embryo to adopt more ventral cell fates. This is thought to involve gradients of the signaling molecule decapentaplegic. TWSG1 may function as a bone morphogenetic protein signalling agonist or antagonize these activities. It can dislodge latent bone morphogenetic proteins and thus provides a permissive signal that allows high BMP signaling in the embryo. TWSG1 is a cofactor in the antagonism of chordin to BMP signaling. It also binds both the vertebrate Decapentaplegic ortholog BMP4 and chordin and forms ternary complexes. Meanwhile, TWSG1 increases binding of chordin to BMP4, potentiates the ability of chordin to induce secondary axes in *Xenopus* embryos, and enhances chordin cleavage by vertebrate proteases related to tolloid at a site poorly used in the absence of TWSG1. The presence of TWSG1 enhances the secondary axis-inducing activity of 2 products of chordin cleavage. Synonym: 1810013J15Rik,9030422N06Rik,AW552143,D17Ert403e,Tsg,Twg

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Molecular Weight: 23.6kDa

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UniProt: [Q9EP52](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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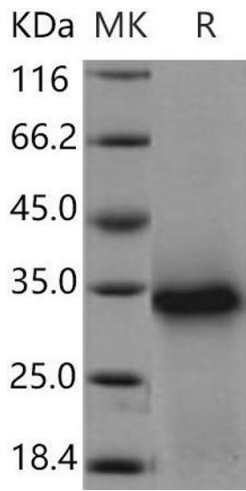
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



**Western Blotting**

**Image 1.**