

Datasheet for ABIN360945 **anti-TWSG1 antibody**

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Overview

Quantity:	0.1 mg
Target:	TWSG1
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This TWSG1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Purified Mouse Recombinant TSG
Clone:	7D19
Isotype:	IgG2
Specificity:	This antibody detects Mouse TSG. Other species not tested.
Purification:	Protein A/G Affinity Chromatography

Target Details

Target:	TWSG1
Alternative Name:	TWSG1 / Tsg (TWSG1 Products)
Background:	Twisted gastrulation (TSG) is a secreted, cysteine-rich protein that plays a role in dorsal/ventral patterning in Drosophila and Xenopus by regulating BMP signaling. TSG was originally identified

Target Details

in *Drosophila melanogaster* and shown to be required for the differentiation of the dorsal amnioserosa cells. Studies of expression and function of Twisted Gastrulation have been performed in *Drosophila* and *Xenopus*. *Xenopus* TSG is expressed in the ventral regions of the embryo during gastrulation, mimicking the BMP-4 expression pattern. TSG is expressed in dorsal cells of the blastoderm embryo, where there are also high levels of activity of Dpp and Screw. Vertebrate TSGs were subsequently cloned in mouse, human, zebrafish and frog. TSG acts as an agonist for BMP signaling by modulating the inhibitory actions of the BMP antagonist, Chordin/Sog, and the cleavage properties of the metalloprotease, xolloid/tolloid. The N-terminal domain of TSG can bind BMP protein directly in vitro and shows BMP antagonist activity. Synonyms: Twisted gastrulation protein homolog 1

Gene ID:	65960
NCBI Accession:	NP_075540
UniProt:	Q9EP52

Application Details

Application Notes:	Western Blot: 1/500 - 1/1000. Immunohistochemistry on frozen sections: 1/50 - 1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore with 200 µL sterile PBS and the final concentration is 500 µL/mL.
Buffer:	PBS, None
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Prior to reconstitution store at 2-8 °C. Following reconstitution store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.