

Product datasheet for DM3604P

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Twsg1 Rat Monoclonal Antibody [Clone ID: 7D19]

Product data:

Product Type: Primary Antibodies

Clone Name: 7D19

Applications: IHC, WB

Recommended Dilution: Western Blot: 1/500-1/1000.

Immunohistochemistry on Frozen Sections: 1/50-1/200.

Reactivity: Mouse

Host: Rat

Isotype: IgG2

Clonality: Monoclonal

Immunogen: Purified Mouse Recombinant TSG

Specificity: This antibody detects Mouse TSG. Other species not tested.

Formulation: PBS

State: Purified

State: Lophilized purified (0.2 µm filtered) IgG fraction from Culture Supernatant

Stabilizer: None

Reconstitution Method: Restore with 200µl sterile PBS and the final concentration is 500µl/ml.

Purification: Protein A/G Affinity Chromatography

Conjugation: Unconjugated

Storage: Prior to reconstitution store at -70°C.

Following reconstitution store the antibody (in aliquots) at -20°C for 6 month.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: twisted gastrulation BMP signaling modulator 1

Database Link: Entrez Gene 65960 Mouse

Q9EP52





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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 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