

Human Twisted Gastrulation Protein Homolog 1 (TWSG1) ELISA Kit | TWSG1 elisa kit

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CATALOG #
AAA330338

REACTIVITY
Human

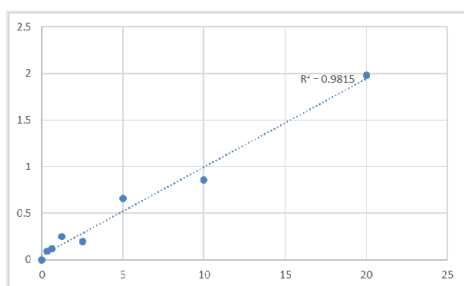
PRODUCT SYNONYMS

Twisted Gastrulation Protein Homolog 1 (TWSG1); Human Twisted Gastrulation Protein Homolog 1 (TWSG1) ELISA Kit; TWSG1; TSG; twisted gastrulation; TWSG1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Twisted gastrulation protein homolog 1 (TWSG1) ELISA Kit has high sensitivity and excellent specificity for detection of Human TWSG1. No significant cross-reactivity or interference between Human TWSG1 and analogues was observed.
Sequence Length	223
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Twisted gastrulation protein homolog 1 (TWSG1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TWSG1 elisa kit	Description: This Human Twisted gastrulation protein homolog 1 (TWSG1) ELISA Kit employs a two-site sandwich ELISA to quantitate TWSG1 in samples. An antibody specific for TWSG1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TWSG1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TWSG1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TWSG1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The cDNA encodes a protein sharing 41% amino acid identity with Drosophila Tsg, 89% identity with the partial human Tsg sequence, and 94% identity with a mouse EST. The Tsg sequence contains a signal peptide, as expected for a secreted protein, and 2 conserved domains containing multiple cysteines at its amino and carboxy termini. At the late gastrula stage, maternal transcripts decrease and zygotic transcripts appear, specifically in the ventral region of the embryo. Tsg has ventralizing activity and is a bone morphogenetic protein (BMP) binding protein. The N-terminal domain of Tsg is sufficient to interact with BMP4 but not with chordin. Tsg competes for binding of BMP4 with the first cysteine-rich domain of chordin (CR1) but not with full-length chordin. Endogenous Tsg antagonizes CR1 activity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10190664
NCBI GeneID	57045
NCBI Accession #	NP_065699.1
NCBI GenBank Nucleotide #	NP_065699.1
UniProt Accession #	Q9GZX9
NCBI Official Full Name	twisted gastrulation protein homolog 1
NCBI Official Synonym Full Names	twisted gastrulation BMP signaling modulator 1
NCBI Official Symbol	TWSG1
NCBI Official Synonym Symbols	TSG
NCBI Protein Information	twisted gastrulation protein homolog 1
UniProt Protein Name	Twisted gastrulation protein homolog 1
UniProt Gene Name	TWSG1
UniProt Synonym Gene Names	TSG
UniProt Entry Name	TWSG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/twisted-gastrulation-protein-homolog-1-twsg1/330338>