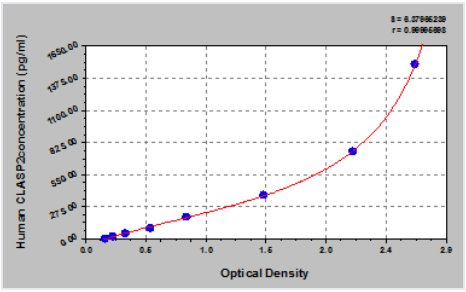
Cytoplasmic Linker Associated Protein 2 (CLASP2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	cytoplasmic linker associated protein 2 (CLASP2), ELISA Kit
Full Product Name	Human CLIP-associating protein 2, CLASP2 ELISA Kit
Product Gene Name	CLASP2 elisa kit
Product Synonym Names	Human CLIP-associating protein 2 (CLASP2) ELISA kit; CLIP-associating protein 2; multiple asters (Mast) -like homolog 2; cytoplasmic linker associated protein 2
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates, Cell lysates
Detection Range	23.5 pg/ml-1500 pg/ml
Sensitivity	5.86 pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of Human CLASP2. No significant cross-reactivity or interference between Human CLASP2 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Molecular Weight	46,585 Da
OMIM	605853
3D Structure	ModBase 3D Structure for O75122
Detection Wavelength	450 nm
Sample Volume	50-100ul
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CLASP2 elisa kit	**Principle of the Assay:** This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for CLASP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CLASP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CLASP2 is added to the wells. After washing, avidin 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 CLASP2 bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of CLASP2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CLASP2 purchase	MBS909800 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the cytoplasmic linker associated protein 2 (CLASP2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CLASP2. The ELISA analytical biochemical technique of the MBS909800 kit is based on CLASP2 antibody-CLASP2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CLASP2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CLASP2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CLASP2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLASP2. It may not necessarily be applicable to this product.

NCBI GI #	333440451
NCBI GeneID	23122
NCBI Accession #	NP_001193973.1
UniProt Primary Accession #	O75122
UniProt Secondary Accession #	Q7L8F6; Q8N6R6; Q9BQT3; Q9BQT4; Q9H7A3; Q9NSZ2
UniProt Related Accession #	O75122
GenBank Nucleotide #	NM_001207044.1
NCBI Official Full Name	CLIP-associating protein 2 isoform 2
NCBI Official Synonym Full Names	cytoplasmic linker associated protein 2
NCBI Official Symbol	CLASP2
UniProt Protein Name	CLIP-associating protein 2
UniProt Synonym Protein Names	Cytoplasmic linker-associated protein 2; Protein Orbit homolog 2; hOrbit2
Protein Family	CLIP-associating protein
UniProt Gene Name	CLASP2
UniProt Synonym Gene Names	KIAA0627; hOrbit2
UniProt Entry Name	CLAP2_HUMAN
NCBI Protein Information	CLIP-associating protein 2; protein Orbit homolog 2; multiple asters (Mast)-like homolog 2; cytoplasmic linker-associated protein 2

UniProt Comments for CLASP2	CLASP2: Microtubule plus-end tracking protein that promotes the stabilization of dynamic microtubules. Involved in the nucleation of noncentrosomal microtubules originating from the trans-Golgi network (TGN). Required for the polarization of the cytoplasmic microtubule arrays in migrating cells towards the leading edge of the cell. May act at the cell cortex to enhance the frequency of rescue of depolymerizing microtubules by attaching their plus-ends to cortical platforms composed of ERC1 and PHLDB2. This cortical microtubule stabilizing activity is regulated at least in part by phosphatidylinositol 3-kinase signaling. Also performs a similar stabilizing function at the kinetochore which is essential for the bipolar alignment of chromosomes on the mitotic spindle. Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex. Belongs to the CLASP family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Chromosomal Location of Human Ortholog: 3p22.3 Cellular Component: kinetochore microtubule; Golgi apparatus; microtubule; membrane; cytoplasmic microtubule; cytoplasm; plasma membrane; microtubule organizing center; cell cortex; trans-Golgi network; cytosol Molecular Function: microtubule plus-end binding; protein binding; galactoside 2-alpha-L-fucosyltransferase activity Biological Process: mitosis; microtubule organizing center organization and biogenesis; axon guidance; regulation of microtubule-based process; cell division; negative regulation of microtubule depolymerization; establishment and/or maintenance of cell polarity; mitotic cell cycle; microtubule nucleation; regulation of microtubule polymerization or depolymerization
Research Articles on CLASP2	**1.** Propose that CLASPs couple microtubule organization, vesicle transport and cell interactions with the ECM, establishing a local secretion pathway that facilitates focal adhesion turnover by severing cell-matrix connections.
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