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KD-Validated Anti-Cytoplasmic linker associated protein 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1356

Specification

KD-Validated Anti-Cytoplasmic linker associated protein 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q7Z460
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 169 kDa , observed, 169 kDa KDa**
Gene Name	**CLASP1**
Aliases	**CLASP1; Cytoplasmic Linker Associated Protein 1; MAST1; CLIP-Associating Protein 1; KIAA0622; Multiple Asters Homolog 1; Protein Orbit Homolog 1; Multiple Asters 1; Cytoplasmic Linker-Associated Protein 1; HOrbit1**
Immunogen	**A synthesized peptide derived from human CLASP1**

KD-Validated Anti-Cytoplasmic linker associated protein 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**23332**

Other Names
CLIP-associating protein 1, Cytoplasmic linker-associated protein 1, Multiple asters homolog 1, Protein Orbit homolog 1, hOrbit1, CLASP1, KIAA0622, MAST1

KD-Validated Anti-Cytoplasmic linker associated protein 1 Rabbit Monoclonal Antibody - Protein Information

Name CLASP1

Synonyms KIAA0622, MAST1

Function
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.

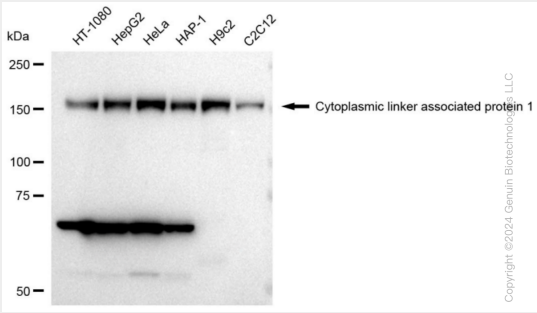
Cellular Location
Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore Cytoplasm, cytoskeleton, spindle. Golgi apparatus, trans-Golgi network. Note=Localizes to microtubule plus ends. Localizes to centrosomes, kinetochores and the mitotic spindle from prometaphase Subsequently localizes to the spindle midzone from anaphase and to the midbody from telophase. In migrating cells localizes to the plus ends of microtubules within the cell body and to the entire microtubule lattice within the lamella. Localizes to the cell cortex and this requires ERC1 and PHLDB2

KD-Validated Anti-Cytoplasmic linker associated protein 1 Rabbit Monoclonal Antibody - Protocols

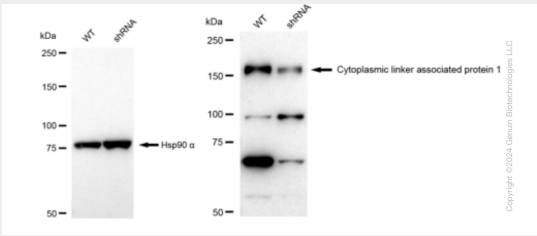
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Cytoplasmic linker associated protein 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Cytoplasmic linker associated protein 1 antibody (Cat#AGI1356). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Cytoplasmic linker associated protein 1 antibody (Cat#AGI1356, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Cytoplasmic linker associated protein 1 antibody (Cat#AGI1356). Cytoplasmic linker associated protein 1 expression in wild type (WT) and Cytoplasmic linker associated protein 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Cytoplasmic linker associated protein 1 antibody (Cat#AGI1356, 1:5,000) and HRP-conjugated goat anti-rabbit

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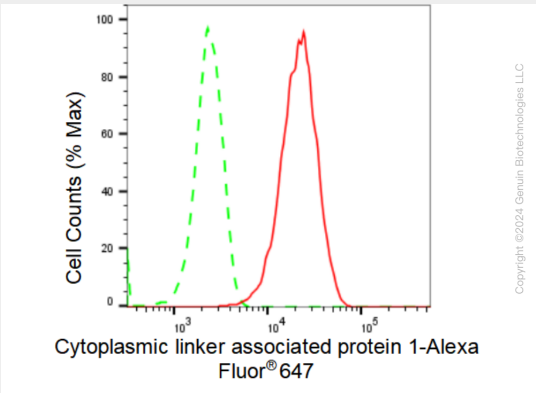
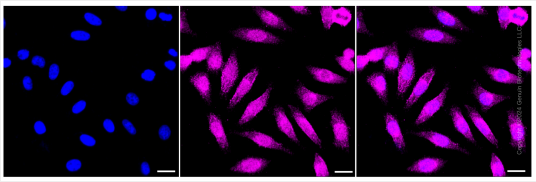
secondary antibody respectively.



Flow cytometric analysis of Cytoplasmic linker associated protein 1 expression in HepG2 cells using Cytoplasmic linker associated protein 1 antibody (Cat#AGI1356, 1:2,000). Green, isotype control; red, Cytoplasmic linker associated protein 1.



Immunocytochemical staining of HepG2 cells with Cytoplasmic linker associated protein 1 antibody (Cat#AGI1356, 1:1,000). Nuclei were stained blue with DAPI; Cytoplasmic linker associated protein 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.