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**Product Name:** KD-Validated Cytoplasmic Linker Associated Protein 1 Recombinant Rabbit Monoclonal Antibody

**Catalog #:** KVA01371

For research use only.

## Summary

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC                                                                  |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

## Application

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 169.5kDa                                 |

## Antigen Information

|                          |                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | CLASP1<br>CLASP1; Cytoplasmic Linker Associated Protein 1; MAST1; CLIP-Associating Protein 1;                                     |
| <b>Alternative Names</b> | KIAA0622; Multiple Asters Homolog 1; Protein Orbit Homolog 1; Multiple Asters 1; Cytoplasmic Linker-Associated Protein 1; HOrbit1 |
| <b>Gene ID</b>           | 23332.0                                                                                                                           |
| <b>SwissProt ID</b>      | Q7Z460                                                                                                                            |
| <b>Immunogen</b>         | A synthesized peptide derived from human CLASP1                                                                                   |

## Background

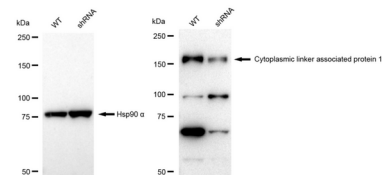
CLASPs, such as CLASP1, are nonmotor microtubule-associated proteins that interact with CLIPs (e.g., CLIP170; MIM 179838).

CLASP1 is involved in the regulation of microtubule dynamics at the kinetochore and throughout the spindle (Maiato et al., 2003 [PubMed 12837247]).[supplied by OMIM, Mar 2008]

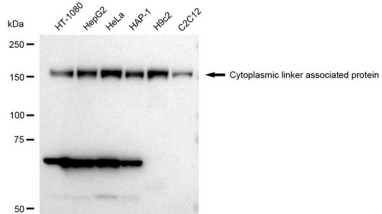
## Research Area

Cell Biology

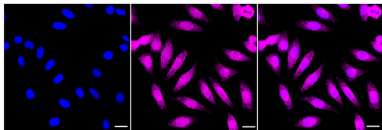
## Image Data



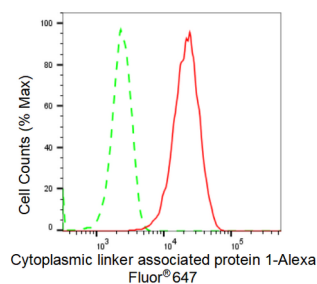
Western blotting analysis using cytoplasmic linker associated protein 1 antibody (KVA01371). Cytoplasmic linker associated protein 1 expression in wild type (WT) and cytoplasmic linker associated protein 1 (CLASP1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with cytoplasmic linker associated protein 1 antibody (KVA01371, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Cytoplasmic linker associated protein 1 antibody (KVA01371). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Cytoplasmic linker associated protein 1 antibody (KVA01371, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Cytoplasmic linker associated protein 1 antibody (KVA01371, 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.



Flow cytometric analysis of Cytoplasmic linker associated protein 1 expression in HepG2 cells using Cytoplasmic linker associated protein 1 antibody (KVA01371, 1:2,000). Green, isotype control; red, Cytoplasmic linker associated protein 1.