

# CLASP1 Polyclonal antibody

Catalog Number: 13713-1-AP

## Basic Information

**Catalog Number:**

13713-1-AP

**Size:**

150 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG4651

**GenBank Accession Number:**

BC032563

**GeneID (NCBI):**

23332

**UNIPROT ID:**

Q7Z460

**Full Name:**

cytoplasmic linker associated protein

1

**Calculated MW:**

1538 aa, 169 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

ELISA

**Species Specificity:**

human, mouse, rat

## Background Information

CLASP1 and CLASP2 are homologous mammalian proteins, which associate with the ends of growing microtubules. In interphase cells CLASPs can attach microtubule plus ends to the cortex and stabilize them by repeatedly rescuing them from depolymerization. A truncated form of CLASP1 lacking the kinetochore binding domain behaves as a dominant negative, leading to the formation of radial arrays of microtubule bundles that are highly resistant to depolymerization. Microinjection of CLASP1-specific antibodies suppresses microtubule dynamics at kinetochores and throughout the spindle, resulting in the formation of monopolar asters with chromosomes buried in the interior. Therefore, CLASP1 is required at kinetochores for attached microtubules to exhibit normal dynamic behavior.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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