

KIF4A Antibody

Rabbit mAb Catalog # AP92417

Product Information

Application WB, FC **Primary Accession** 095239

Reactivity Human, Mouse Clonality Monoclonal

Other Names Chromokinesin; KIF4; KIF4 G1; KIF4A; KIF4G1;

IsotypeRabbit IgGHostRabbitCalculated MW139881

Additional Information

Dilution WB 1:500~1:2000 FC 1:100 **Purification** Affinity-chromatography

Immunogen A synthesized peptide derived from human KIF4A

Description Motor protein that translocates PRC1 to the plus ends of interdigitating

spindle microtubules during the metaphase to anaphase transition, an essential step for the formation of an organized central spindle midzone and

midbody and for successful cytokinesis.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

Protein Information

Name KIF4A

Synonyms KIF4

Function Iron-sulfur (Fe-S) cluster binding motor protein that has a role in

chromosome segregation during mitosis (PubMed: <u>29848660</u>). Translocates PRC1 to the plus ends of interdigitating spindle microtubules during the metaphase to anaphase transition, an essential step for the formation of an

organized central spindle midzone and midbody and for successful

cytokinesis (PubMed:<u>15297875</u>, PubMed:<u>15625105</u>). May play a role in mitotic chromosomal positioning and bipolar spindle stabilization (By similarity).

Cellular Location Nucleus matrix. Cytoplasm. Cytoplasm, cytoskeleton, spindle Midbody

Chromosome. Note=Associates with chromosomes at all stage of mitosis (PubMed:11736643, PubMed:15297875, PubMed:15625105) Chromatin localization is dependent on iron-sulfur cluster binding (PubMed:29848660).

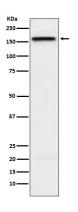
In anaphase, associates with the mitotic spindle midzone

(PubMed:15297875). In telophase and cytokinesis, co-localizes with CIAO2B at the spindle midzone and midbody (PubMed:15297875, PubMed:29848660). Co-localizes with PRC1 in early mitosis and at the spindle midzone from anaphase B to telophase (PubMed:15297875, PubMed:15625105). Does not localize to the nucleolus (PubMed:11736643)

Tissue Location

Highly expressed in hematopoietic tissues, fetal liver, spleen, thymus and adult thymus and bone marrow. Lower levels are found in heart, testis, kidney, colon and lung

Images



Western blot analysis of KIF4A expression in HeLa cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.