

Recombinant Anti-KIF4A Rabbit mAb

Catalog # AP95254

Product Information

Application	WB, FC
Primary Accession	O95239
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal
Calculated MW	139881

Additional Information

Gene ID	24137
Other Names	KIF4; Chromosome-associated kinesin KIF4A; Chromokinesin-A
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human KIF4A protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

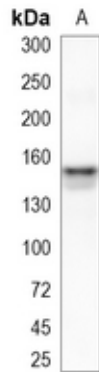
Name	KIF4A
Synonyms	KIF4
Function	Iron-sulfur (Fe-S) cluster binding motor protein that has a role in chromosome segregation during mitosis (PubMed: 29848660). Translocates PRC1 to the plus ends of interdigitating spindle microtubules during the metaphase to anaphase transition, an essential step for the formation of an organized central spindle midzone and midbody and for successful cytokinesis (PubMed: 15297875 , PubMed: 15625105). 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 (A) whole cell lysates. (Predicted band size: 140 kD; Observed band size: 150 kD)

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