

KIF4A Rabbit pAb

Catalog # AP99594

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O95239
Other Accession	O95239
Reactivity	Mouse
Predicted	Rat, Human, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	139881
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KIF4A
Epitope Specificity	701-800/1232
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the kinesin-like protein family. Chromokinesin subfamily. Contains 1 kinesin-motor domain.
SUBUNIT	Interacts with unphosphorylated PRC1 during late mitosis.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. May play a role in mitotic chromosomal positioning and bipolar spindle stabilization. Tissue specificity: 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.

Additional Information

Gene ID	24137
Other Names	KIF4; KIF4G1; MRX100; TMDI; XLID100; D330050K22Rik; Kns4; KIF4A_HUMAN; KIF4A; Chromokinesin-A; KIF4_MOUSE; Chromokinesin; kinesin family member 4A; chromokinesin KIF4A
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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