

KD-Validated Anti-Kinesin family member 4A Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1043

Product Information

Application	WB, FC, ICC
Primary Accession	O95239
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB6025
Calculated MW	139881
Gene Name	KIF4A
Aliases	KIF4A; Kinesin Family Member 4A; KIF4; MRX100; Chromosome-Associated Kinesin KIF4A; Chromokinesin KIF4A; Chromokinesin-A; HSA271784; FLJ12530; FLJ12655; FLJ14204; FLJ20631; KIF4-G1; XLID100; KIF4G1; TMDI
Immunogen	A synthesized peptide derived from human KIF4A

Additional Information

Gene ID	24137
Other Names	Chromosome-associated kinesin KIF4A, Chromokinesin-A, KIF4A, KIF4

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

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