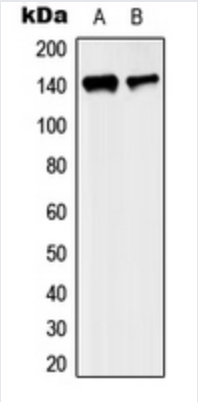
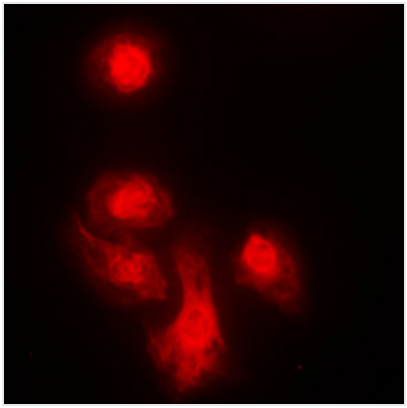
KIF4A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KIF4A, Polyclonal Antibody
Full Product Name	Anti-KIF4A Antibody
Product Gene Name	anti-KIF4A antibody
Product Synonym Names	KIF4; Chromosome-associated kinesin KIF4A; Chromokinesin-A
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Monkey
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of KIF4A protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	KIF4A peptide (MBS823762) is used for blocking the activity of KIF4A antibody (MBS820797)
Molecular Weight	128,459 Da
OMIM	300521
3D Structure	ModBase 3D Structure for O95239
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human KIF4A. The exact sequence is proprietary.
Applications Tested/Suitable for anti-KIF4A antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemsitry (ICC)
Application Notes for anti-KIF4A antibody	WB (1/500 - 1/1000), IF/ICC (1/100 - 1/500)
Related Product Information for anti-KIF4A antibody	MBS820797 is an antibody targeting KIF4A. Reactive in Human, Mouse, Monkey. Host: Rabbit. Rabbit polyclonal antibody to KIF4A
Other Notes	Small volumes of anti-KIF4A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-KIF4A antibody
Western blot analysis of KIF4A expression in MCF7 (A), SP2/0 (B) whole cell lysates.



Immunofluorescence (IF) of anti-KIF4A antibody
Immunofluorescent analysis of KIF4A staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KIF4A. It may not necessarily be applicable to this product.

NCBI GI #	116686122
NCBI GeneID	24137
NCBI Accession #	NP_036442.3
UniProt Primary Accession #	O95239
UniProt Secondary Accession #	Q86TN3; Q86XX7; Q9NNY6; Q9NY24; Q9UMW3; B2R7V5; D3DVU4
UniProt Related Accession #	O95239
GenBank Nucleotide #	NM_012310.4
NCBI Official Full Name	chromosome-associated kinesin KIF4A
NCBI Official Synonym Full Names	kinesin family member 4A
NCBI Official Symbol	KIF4A
NCBI Official Synonym Symbols	KIF4; KIF4G1; MRX100
UniProt Protein Name	Chromosome-associated kinesin KIF4A
UniProt Synonym Protein Names	Chromokinesin-A
Protein Family	Chromosome-associated kinesin
UniProt Gene Name	KIF4A
UniProt Synonym Gene Names	KIF4
UniProt Entry Name	KIF4A_HUMAN
NCBI Protein Information	chromosome-associated kinesin KIF4A; chromokinesin-A
NCBI Summary for KIF4A	This gene encodes a member of the kinesin 4 subfamily of kinesin related proteins. The encoded protein is an ATP dependent microtubule-based motor protein that is involved in the intracellular transport of membranous organelles. This protein also associates with condensed chromosome arms and may be involved in maintaining chromosome integrity during mitosis. This protein may also be involved in the organization of the central spindle prior to cytokinesis. A pseudogene of this gene is found on chromosome X.[provided by RefSeq, Mar 2010]

UniProt Comments for KIF4A	KIF4A: 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. Belongs to the kinesin-like protein family. Chromokinesin subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motor; Microtubule-binding Chromosomal Location of Human Ortholog: Xq13.1 Cellular Component: nucleoplasm; kinesin complex; nuclear matrix; membrane; spindle microtubule; cytoplasm; midbody; chromosome; cytosol Molecular Function: protein binding; DNA binding; plus-end-directed microtubule motor activity; microtubule binding; ATPase activity; microtubule motor activity; ATP binding Biological Process: axon guidance; spindle midzone assembly involved in mitosis; cytokinesis after mitosis; metabolic process; organelle organization and biogenesis; antigen processing and presentation of exogenous peptide antigen via MHC class II; anterograde axon cargo transport; blood coagulation; microtubule-based movement Disease: Mental Retardation, X-linked 100
Research Articles on KIF4A	**1.** The KIF4A phosphorylation by Aurora B stimulates the maximal microtubule-dependent ATPase activity of KIF4A and promotes its interaction with PRC1.
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