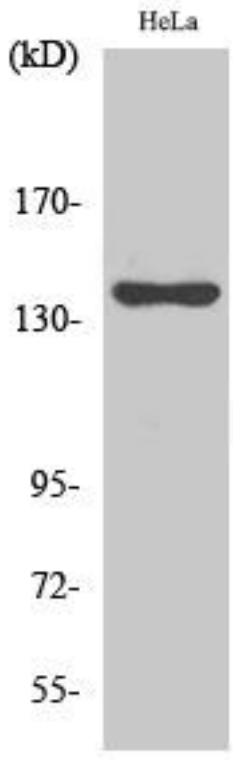
KIF4A Monoclonal Antibody

Catalog No	YP-mAb-03146
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	KIF4A
Protein Name	Chromosome-associated kinesin KIF4A
Immunogen	The antiserum was produced against synthesized peptide derived from human KIF4A. AA range:1171-1220
Specificity	KIF4A Monoclonal Antibody detects endogenous levels of KIF4A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KIF4A; KIF4; Chromosome-associated kinesin KIF4A; Chromokinesin-A
Observed Band	140kD
Cell Pathway	Nucleus matrix . Cytoplasm . Cytoplasm, cytoskeleton, spindle . Midbody . Chromosome . 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:29848660, PubMed:15297875). 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 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.
Function	function: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.,sequence caution:Contaminating sequence. Potential poly-A sequence.,similarity:Belongs to the kinesin-like protein

	family.,similarity:Belongs to the kinesin-like protein family. Chromokinesin subfamily.,similarity:Contains 1 kinesin-motor domain.,subcellular location:Not present in the nucleolus. In early mitosis, associated with the mitotic spindle, in anaphase, localized to the spindle midzone and, in telophase and cytokinesis, to the midbody. In late cytokinesis, found in the center of the midbody. Associated with chromosomes at all stag
Background	kinesin family member 4A(KIF4A) Homo sapiens 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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using KIF4A Monoclonal Antibody