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KIF23 Polyclonal Antibody

Catalog Number **PA5-31773**

Product data sheet

Details	
Size	100 µL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 214 of Human MKLP1
Conjugate	Unconjugated
Form	Liquid
Concentration	0.8 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.1M tris glycine, pH 7, with 20% glycerol
Contains	0.01% thimerosal
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human
Published species	Human

Tested Applications	Dilution *
Western Blot (WB)	1:500-1:3,000
Immunocytochemistry (ICC/IF)	1:100-1:1,000

Published Applications	
Immunocytochemistry (ICC/IF)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Recommended positive controls: HeLa. Predicted reactivity: Mouse (91%), Rat (90%), Bovine (93%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

The protein encoded by this gene is a member of kinesin-like protein family. This family includes microtubule-dependent molecular motors that transport organelles within cells and move chromosomes during cell division. This protein has been shown to cross-bridge antiparallel microtubules and drive microtubule movement in vitro. Alternate splicing of this gene results in two transcript variants encoding two different isoforms.

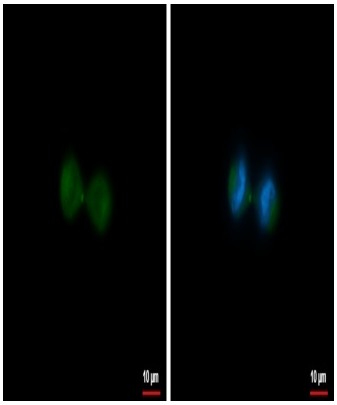
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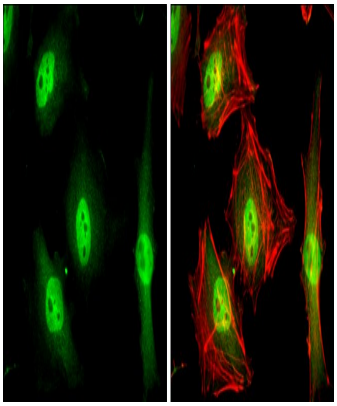
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Product Images For KIF23 Polyclonal Antibody



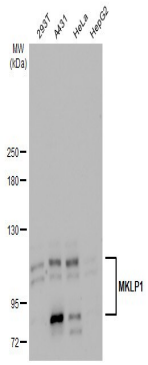
KIF23 Antibody (PA5-31773) in ICC/IF

KIF23 Polyclonal Antibody detects MKLP1 protein at midbody by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: MKLP1 protein stained by KIF23 Polyclonal Antibody (Product # PA5-31773) diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 µm.



KIF23 Antibody (PA5-31773) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of KIF23 was performed in HeLa cells fixed in 4% paraformaldehyde at RT for 15 min. Green: KIF23 Polyclonal Antibody (Product # PA5-31773) diluted at 1:500. Red: phalloidin, a cytoskeleton marker.



KIF23 Antibody (PA5-31773) in WB

Western Blot using KIF23 Polyclonal Antibody (Product # PA5-31773). Various whole cell extracts (30 µg) were separated by 5% SDS-PAGE, and the membrane was blotted with KIF23 Polyclonal Antibody (Product # PA5-31773) diluted at 1:2,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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PubMed References For KIF23 Polyclonal Antibody

1 Immunocytochemistry References

Species / Dilution	Summary
	PA5-31773 was used in Immunocytochemistry to demonstrate that depletion of Rab14 causes either cytokinesis failure or significantly prolongs division time.
Human / 1:200	Molecular biology of the cell (2021; 32: 554) **"Rab14/MACF2 complex regulates endosomal targeting during cytokinesis."** Author(s):Gibieža P,Peterman E,Hoffman HK,Van Engeleburg S,Skeberdis VA,Prekeris R PubMed Article URL:http://dx.doi.org/10.1091/mbc.E20-09-0607

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