

KIF24 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5720A

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q5T7B8
Other Accession	Q6NWW5 , NP_919289.2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27010
Calculated MW	151903
Antigen Region	356-384

Additional Information

Gene ID	347240
Other Names	Kinesin-like protein KIF24, KIF24, C9orf48
Target/Specificity	This KIF24 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 356-384 amino acids from the N-terminal region of human KIF24.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KIF24 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KIF24
Synonyms	C9orf48

Function

Microtubule-dependent motor protein that acts as a negative regulator of ciliogenesis by mediating recruitment of CCP110 to mother centriole in cycling cells, leading to restrict nucleation of cilia at centrioles. Mediates depolymerization of microtubules of centriolar origin, possibly to suppress aberrant cilia formation (PubMed:[21620453](#)). Following activation by NEK2 involved in disassembly of primary cilium during G2/M phase but does not disassemble fully formed ciliary axonemes. As cilium assembly and disassembly is proposed to coexist in a dynamic equilibrium may suppress nascent cilium assembly and, potentially, ciliar re-assembly in cells that have already disassembled their cilia ensuring the completion of cilium removal in the later stages of the cell cycle (PubMed:[26290419](#)). Plays an important role in recruiting MPHOSPH9, a negative regulator of cilia formation to the distal end of mother centriole (PubMed:[30375385](#)).

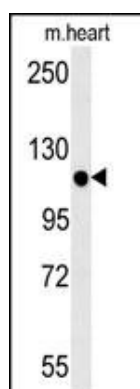
Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Primarily localizes to the mother centriole/basal body and is either absent at daughter centriole

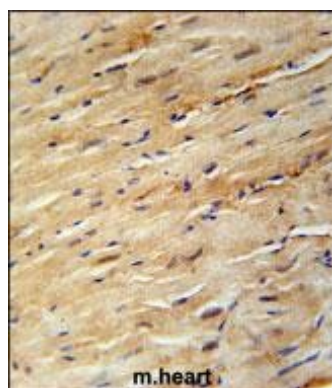
References

Tsuritani, K., et al. Genome Res. 17(7):1005-1014(2007)
Humphray, S.J., et al. Nature 429(6990):369-374(2004)
Miki, H., et al. Proc. Natl. Acad. Sci. U.S.A. 98(13):7004-7011(2001)

Images

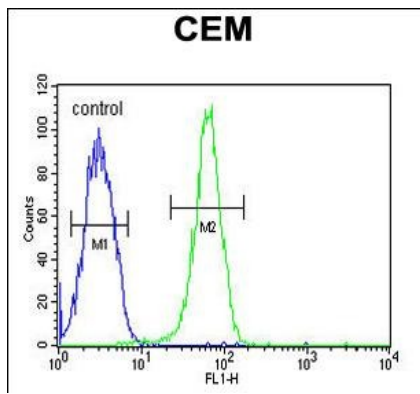


KIF24 Antibody (N-term) (Cat. #AP5720a) western blot analysis in mouse heart tissue lysates (15ug/lane). This demonstrates the KIF24 antibody detected KIF24 protein (arrow).



KIF24 Antibody (N-term) (Cat. #AP5720a) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the KIF24 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

KIF24 Antibody (N-term) (Cat. #AP5720a) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the



analysis.

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