

Product datasheet for **SM3118P**

KIF5B Mouse Monoclonal Antibody [Clone ID: KN-03]

Product data:

Product Type:	Primary Antibodies
Clone Name:	KN-03
Applications:	IF, IHC, WB
Recommended Dilution:	Immunocytochemistry. Western blot (kinesin-enriched preparations). This clone KN-03 has been described to work in Immunohistochemistry on Paraffin Sections.
Reactivity:	Human, Mouse, Porcine, Rat
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Enriched fraction of porcine brain kinesin.
Specificity:	The antibody KN-03 recognizes heavy chain of conventional kinesin associated with vesicles and with lower affinity with denaturated molecule. Epitope mapping (by limited proteolysis of partially purified porcine kinesin) followed by immunoblotting has revealed that antibodies KN-01, KN-02 and KN-03 react with different sets of fragments. The antibody KN-03 well recognizes kinesin bound to taxol-stabilized microtubules.
Formulation:	PBS, pH~7.4 State: Purified State: Liquid purified Ig fraction from Ascites (> 95% by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	lot specific
Purification:	Thiophilic Adsorption Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.



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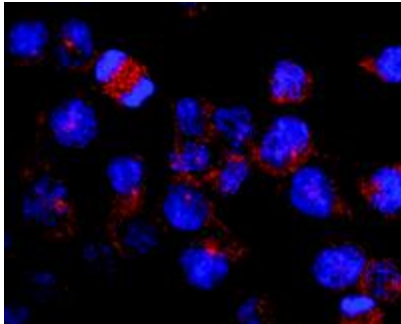
Gene Name: kinesin family member 5B

Database Link: [Entrez Gene 3799 Human P33176](#)

Background: Kinesin belongs to the group of microtubule-associated motor proteins known to convert chemical energy released from nucleoside triphosphates (preferentially from ATP) into mechanical energy. Conventional kinesin, member of the kinesin superfamily comprising more than 100 proteins, is involved in the anterograde vesicle transport in neuronal cells. Kinesin purified from mammalian brain homogenates is a heterotetramer consisting of two heavy (120 to 130 kDa) and two light chains (60 to 70 kDa), resulting in a molecular mass about 400 kDa. Each heavy chain contains an N-terminal globular motordomain with both a microtubule-binding site and an ATPase active center, stalk region responsible for heavy chain dimerization and finally C-terminal globular tail domain, which is implicated in cargo binding. Light chains may have a regulatory function.

Synonyms: KIF5B, KNS, KNS1, Kinesin-1 heavy chain, Ubiquitous kinesin heavy chain, UKHC, Conventional kinesin heavy chain

Product images:



Immunofluorescence staining of vesicles (red) in RBL-2H3 Rat basophilic leukemia cell line using anti-Kinesin Antibody (Clone KN-03). Nuclei were stained with DAPI (blue).