

ARG63050 anti-KIF5B / Kinesin Heavy Chain antibody [KN-03]

Package: 100 µg

Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [KN-03] recognizes KIF5B / Kinesin Heavy Chain
Tested Reactivity	Hu, Ms, Rat, Pig
Tested Application	ICC/IF
Specificity	The clone KN-03 recognizes heavy chain of conventional kinesin associated with vesicles and with lower affinity with denaturated molecule. It stains Western blots of kinesin-enriched preparations. 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. KN-03 well recognizes kinesin bound to taxol-stabilized microtubules._x000D_
Host	Mouse
Clonality	Monoclonal
Clone	KN-03
Isotype	IgM
Target Name	KIF5B / Kinesin Heavy Chain
Species	Pig
Immunogen	Enriched fraction of porcine brain kinesin.
Conjugation	Un-conjugated
Alternate Names	HEL-S-61; Kinesin-1 heavy chain; Conventional kinesin heavy chain; KINH; KNS1; Ubiquitous kinesin heavy chain; UKHC; KNS

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

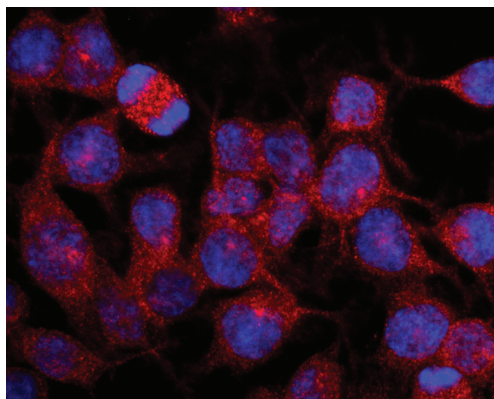
Form	Liquid
Purification	Purified from ascites by thiophilic adsorption-affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	TBS (pH 8.0) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	KIF5B
Gene Full Name	kinesin family member 5B
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.
Research Area	Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	110 kDa

Images



ARG63050 anti-KIF5B / Kinesin Heavy Chain antibody [KN-03] ICC/IF image

Immunofluorescence: RBL-2H3 rat basophilic leukemia cells stained with ARG63050 anti-KIF5B / Kinesin Heavy Chain antibody [KN-03] (red). Nuclei stained with DAPI (blue).