

# **Product datasheet**

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# ARG73073 anti-KIF5B / Kinesin Heavy Chain antibody

Package: 100 μl Store at: -20°C

# **Summary**

Product Description Rabbit Polyclonal antibody recognizes KIF5B / Kinesin Heavy Chain

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P, IP, WB

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name KIF5B / Kinesin Heavy Chain

Species Human

Immunogen Synthetic peptide of Human KIF5B / Kinesin Heavy Chain.

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	1:20 - 1:100
	IHC-P	1:20 - 1:100
	IP	1:20 - 1:50
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	

### **Properties**

Form	Liquid	
Purification	Affinity purified.	
Buffer	50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.	
Preservative	0.01% Sodium azide	
Stabilizer	40% Glycerol and 0.05% BSA	
Concentration	Batch dependent	
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. 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

Function Microtubule-dependent motor required for normal distribution of mitochondria and lysosomes. Can

induce formation of neurite-like membrane protrusions in non-neuronal cells in a ZFYVE27-dependent manner (By similarity). Regulates centrosome and nuclear positioning during mitotic entry. During the G2 phase of the cell cycle in a BICD2-dependent manner, antagonizes dynein function and drives the separation of nuclei and centrosomes (PubMed:20386726). Required for anterograde axonal

transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By

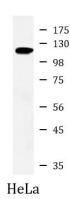
similarity). [UniProt]

Calculated Mw 110 kDa

Cellular Localization Cytoplasm, cytoskeleton. Note=Uniformly distributed between soma and neurites in hippocampal

neurons. [UniProt]

#### **Images**



#### ARG73073 anti-KIF5B / Kinesin Heavy Chain antibody WB image

Western blot: HeLa cell lysate stained with ARG73073 anti-KIF5B / Kinesin Heavy Chain antibody at 1:500 dilution.