

Rabbit Kinesin 5A Polyclonal Antibody | anti-KIF5A antibody

Kinesin 5A Antibody

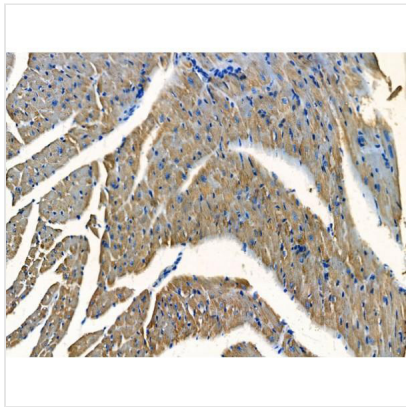
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329037	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Horse(88%), Sheep(100%), Rabbit(88%), Dog(100%)	ELISA

PRODUCT SYNONYMS

Kinesin 5A; Polyclonal Antibody; Kinesin 5A Antibody; D12S1889; KIF 5A; Kif5a; KIF5A_HUMAN; Kinesin family member 5A; Kinesin heavy chain isoform 5A; Kinesin Heavy Chain Neuron Specific; Kinesin heavy chain neuron-specific 1; MY050; Neuronal kinesin heavy chain; NKHC 1; NKHC; SPG 10; anti-KIF5A antibody

PRODUCT SPECIFICATIONS

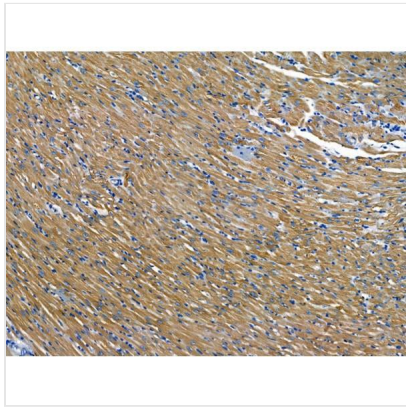
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Horse(88%), Sheep(100%), Rabbit(88%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Kinesin 5A Antibody detects endogenous levels of total Kinesin 5A.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1032
Applicable Applications for anti-KIF5A antibody	ELISA
Immunogen	A synthesized peptide derived from human Kinesin 5A, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



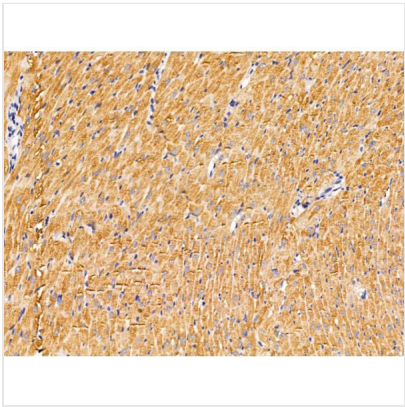
IHC (Immunohistochemistry)
AAA329037 at 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



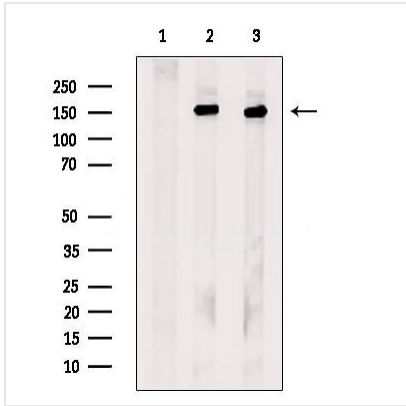
IHC (Immunohistochemistry)
AAA329037 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
AAA329037 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
AAA329037 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from various samples, using Kinesin 5A Antibody. Lane 1: K562, treated with blocking peptide; Lane 2: K562; Lane 3: 3T3. Observed bands: 160 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-KIF5A antibody	Function: Microtubule-dependent motor required for slow axonal transport of neurofilament proteins (NFH, NFM and NFL). Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a ZFYVE27-dependent manner. The ZFYVE27-KIF5A complex contributes to the vesicular transport of VAPA, VAPB, SURF4, RAB11A, RAB11B and RTN3 proteins in neurons. Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation. Subcellular Location: Cytoplasm>Perinuclear region. Cytoplasm>Cytoskeleton. Perikaryon. Note: Concentrated in the cell body of the neurons, particularly in the perinuclear region. Tissue Specificity: Distributed throughout the CNS but is highly enriched in subsets of neurons. Subunit Structure: Oligomer composed of two heavy chains and two light chains. Interacts with GRIP1. Interacts with FMR1 (via C-terminus); this interaction is increased in a mGluR-dependent manner. Interacts with ZFYVE27. Interacts with VAPA, VAPB, SURF4, RAB11A (GDP-bound form), RAB11B (GDP-bound form) and RTN3 in a ZFYVE27-dependent manner (By similarity). Interacts with BORCS5 (PubMed:25898167). Interacts with BICD2 (PubMed:20386726). Similarity: Composed of three structural domains: a large globular N-terminal domain which is responsible for the motor activity of kinesin (it hydrolyzes ATP and binds microtubule), a central alpha-helical coiled coil domain that mediates the heavy chain dimerization; and a small globular C-terminal domain which interacts with other proteins (such as the kinesin light chains), vesicles and membranous organelles.Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Kinesin family. Kinesin subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	45446749
NCBI GeneID	3798
NCBI Accession #	NP_004975.2
NCBI GenBank Nucleotide #	NP_004975.2
UniProt Accession #	Q12840
Molecular Weight	Observed Molecular Weight: (Observed)117kD, 160kD. Predicted Molecular Weight: (Calculated)117kDa.
NCBI Official Full Name	kinesin heavy chain isoform 5A isoform 1
NCBI Official Synonym Full Names	kinesin family member 5A
NCBI Official Symbol	KIF5A
NCBI Official Synonym Symbols	NKHC; ALS25; MY050; NEIMY; SPG10; D12S1889
NCBI Protein Information	kinesin heavy chain isoform 5A
UniProt Protein Name	Kinesin heavy chain isoform 5A
UniProt Gene Name	KIF5A
UniProt Synonym Gene Names	NKHC1; NKHC
UniProt Entry Name	KIF5A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.