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KIF1A antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10578

Specification

KIF1A antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q12756
Other Accession	NM_004321, NP_004312
Reactivity	**Human, Mouse, Rat, Zebrafish, Pig, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Zebrafish, Pig, Chicken, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**191kDa KDa**

KIF1A antibody - N-terminal region - Additional Information

Gene ID 547

Alias Symbol	**ATSV, C2orf20, DKFZp686I2094, FLJ30229, HUNC-104, MGC133285, MGC133286, UNC104, MRD9, HSN2C, SPG30**

Other Names
Kinesin-like protein KIF1A, Axonal transporter of synaptic vesicles, Microtubule-based motor KIF1A, Unc-104- and KIF1A-related protein, hUnc-104, KIF1A, ATSV, C2orf20

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-KIF1A antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
KIF1A antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

KIF1A antibody - N-terminal region - Protein Information

Name KIF1A

Synonyms ATSV, C2orf20

Function
Motor for anterograde axonal transport of synaptic vesicle precursors (PubMed:33880452). Also required

for neuronal dense core vesicles (DCVs) transport to the dendritic spines and axons. The interaction calcium-dependent with CALM1 increases vesicle motility and interaction with the scaffolding proteins PPFIA2 and TANC2 recruits DCVs to synaptic sites.

Cellular Location
Cytoplasm, cytoskeleton. Cell projection, neuron projection. Cell projection, axon {ECO:0000250|UniProtKB:P33173}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P33173}. Synapse {ECO:0000250|UniProtKB:P33173} Cytoplasmic vesicle, secretory vesicle, neuronal dense core vesicle membrane {ECO:0000250|UniProtKB:F1M4A4}; Peripheral membrane protein {ECO:0000250|UniProtKB:F1M4A4}; Cytoplasmic side {ECO:0000250|UniProtKB:F1M4A4}. Note=Within neuronal cells concentrated in the axon, with smaller amounts in the perinuclear and synaptic regions (By similarity). Accumulates at the distal tip of growing neurites. {ECO:0000250|UniProtKB:P33173, ECO:0000269|PubMed:25265257, ECO:0000269|PubMed:33880452}

Tissue Location
Expressed in neurons.

KIF1A antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

