

KIF17 Rabbit pAb

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Catalog # AP58074

Product Information

Application	WB
Primary Accession	Q9P2E2
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	115068
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KIF17
Epitope Specificity	201-300/1029
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm, cytoskeleton (Probable).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The kinesin superfamily of proteins (KIFs) consists of a class of microtubule-dependent motors that play a major role in many cellular and developmental functions, including organelle transport, mitosis, meiosis, and possibly long-range signaling in neurons. The kinesin proteins are involved in organelle transport and are primarily associated with anterograde transport of vesicles and organelles in neurons, epithelial cells, and melanosomes with bidirectional transport of mitochondria. They also mediate transport between the endoplasmic reticulum (ER) and the Golgi complex. In neurons, kinesin motors conduct vesicular transport, such as of synaptic vesicle components to axons and of neurotransmitter receptors to dendrites. KIF17 belongs to the functionally diverse subgroup of the kinesin superfamily characterized by a N-terminal motor domain (N-IV class), that includes the KIF3 motor protein. KIF17 is specifically expressed in the brain, present in abundance in the gray matter, particularly in the hippocampus and cerebral cortex, but not in the white matter such as the optic nerve.

Additional Information

Gene ID	57576
Other Names	Kinesin-like protein KIF17, KIF3-related motor protein, KIF17, KIAA1405, KIF3X
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

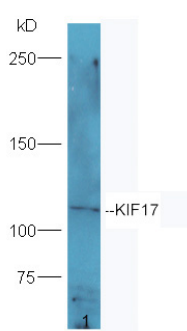
Protein Information

Name	KIF17
Synonyms	KIAA1405, KIF3X
Function	Together with RAB23 and IFT57, it is required for the localization of specific G protein-coupled receptors, such as dopamine receptor DRD1, to primary cilia (PubMed: 26182404). In association with the Apba1-containing complex (LIN-10-LIN-2-LIN-7 complex), transports vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit NR2B along microtubules.
Cellular Location	Cytoplasm, cytoskeleton. Cell projection, cilium {ECO:0000250 UniProtKB:Q99PW8}. Cell projection, dendrite {ECO:0000250 UniProtKB:Q99PW8}. Note=Localizes to dendrites of pyramidal neurons (By similarity). Does not localize to the axons or nuclei in cerebral cortex, hippocampus or olfactory bulb (By similarity). Co-localizes with NR2B-containing vesicles along microtubules (By similarity). {ECO:0000250 UniProtKB:Q99PW8}

Background

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Images



Sample: HepG2 Cell Lysate at 30 ug
Primary: Anti-KIF17 (AP58074) at 1:300 dilution;
Secondary: HRP conjugated Goat-Anti-Rabbit
IgG(bse-0295G-HRP) at 1: 5000 dilution;
Predicted band size :115 kD
Observed band size :115 kD

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