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Datasheet for ABIN2746815 KIF13A Protein

Overview

Quantity:	5 applications
Target:	KIF13A
Origin:	Human, Mouse, Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Positive Control (PC), Western Blotting (WB)

Product Details

Purpose:	Purified Protein in ready-to-use SDS sample buffer.
Purification:	Purified Protein

Target Details

Target:	KIF13A
Alternative Name:	KIF13A (KIF13A Products)
Background:	<p>KIF13A- selective antibodies were generated The kinesin superfamily of proteins (also known as KIFs) constitutes a large family of over forty KIF microtubule-dependent motor proteins, which are responsible for the distribution of numerous organelles, vesicles and macromolecular complexes throughout the cell. Individual kinesin members play crucial roles in cell division, mitotic spindle formation, chromosome segregation, cytokinesis, intracellular transport and membrane trafficking events including endocytosis and transcytosis. Structurally, all kinesins contain a motor domain with microtubule and nucleotide binding sites that utilize ATP to target cargo along microtubule filaments. KIF13A is a subfamily of Kinesins that is expressed</p>

Target Details

essentially in the central nervous system in early developmental stages. It functions in positioning of endosomes and directs mannose-6-phosphate receptor-(M6PR) containing vesicles from the trans-Golgi network to the plasma membrane. KIF13A is an end-directed microtubule-dependent motor protein which associates with β 1-adaptin, a subunit of the AP-1 adaptor complex. Overexpression of KIF13A results in mislocalization of the AP-1 (Activator Protein 1) and the M6PR. Functional blockade of KIF13A reduces cell surface expression of the M6PR. Thus, KIF13A transports M6PR-containing vesicles and targets the M6PR from TGN to the plasma membrane via direct interaction with the AP-1 adaptor complex. Studies have identified three Kinesin-3 family members-KIF1A, KIF13A, and KIF13B that interact with dendritic vesicle populations to evaluate motor-vesicle interactions in living cells. Mutations in KIF13A gene are associated with occurrence of schizophrenia.

Molecular Weight: 217 kDa

NCBI Accession: [NP_071396](#)

UniProt: [Q9H1H9](#)

Application Details

Application Notes: The sample is in ready-to-use buffer for application in SDS-PAGE and Western blotting.

Comment: Synonyms: anti-Kinesin family member 13A antibody, kinesin-like protein RBKIN

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: For 5 applications, volume varies from 100-200 μ L in reduced SDS-PAGE sample buffer.

Storage: -20 °C

Storage Comment: -20 °C for long term storage