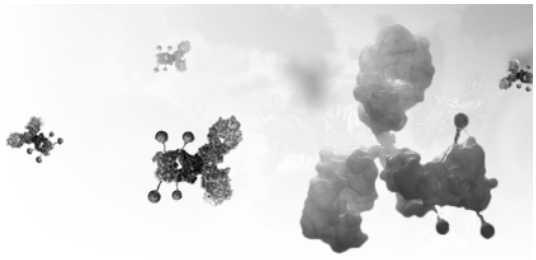

Anti-PAFAH1B1 monoclonal antibody, clone FQS4446(3) (DCABH-236)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit monoclonal to LIS1
Antigen Description	Required for proper activation of Rho GTPases and actin polymerization at the leading edge of locomoting cerebellar neurons and postmigratory hippocampal neurons in response to calcium influx triggered via NMDA receptors. Non-catalytic subunit of an acetylhydrolase complex which inactivates platelet-activating factor (PAF) by removing the acetyl group at the SN-2 position (By similarity). Positively regulates the activity of the minus-end directed microtubule motor protein dynein. May enhance dynein-mediated microtubule sliding by targeting dynein to the microtubule plus end. Required for several dynein- and microtubule-dependent processes such as the maintenance of Golgi integrity, the peripheral transport of microtubule fragments and the coupling of the nucleus and centrosome. Required during brain development for the proliferation of neuronal precursors and the migration of newly formed neurons from the ventricular/subventricular zone toward the cortical plate. Neuronal migration involves a process called nucleokinesis, whereby migrating cells extend an anterior process into which the nucleus subsequently translocates. During nucleokinesis dynein at the nuclear surface may translocate the nucleus towards the centrosome by exerting force on centrosomal microtubules. May also play a role in other forms of cell locomotion including the migration of fibroblasts during wound healing.
Immunogen	Synthetic peptide corresponding to residues in Human LIS1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Rat, Human
Clone	FQS4446(3)
Conjugate	Unconjugated

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Applications	IP, WB, Flow Cyt
Positive Control	Human fetal brain, HeLa, SH-SY5Y, and 293T cell lysates, HeLa cells
Format	Liquid
Size	100 µl
Buffer	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
Preservative	0.1% Sodium Azide
Storage	Store at -20°C. Stable for 12 months at -20°C

GENE INFORMATION

Gene Name	PAFAH1B1 platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa) [Homo sapiens]
Official Symbol	PAFAH1B1
Synonyms	PAFAH1B1; platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa); MDCR, MDS, Miller Dieker syndrome chromosome region , platelet activating factor acetylhydrolase, isoform Ib, alpha subunit (45kD) , platelet activating factor acety
Entrez Gene ID	5048
Protein Refseq	NP_000421
UniProt ID	P43034
Chromosome Location	17p13.3
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; DNA Replication, organism-specific biosystem; Ether lipid metabolism, organism-specific biosystem; Ether lipid metabolism, conserved biosystem; G2/M Transition, organism-specific biosystem;
Function	dynactin binding; dynein binding; dynein intermediate chain binding; heparin binding; microtubule binding; phospholipase binding; phosphoprotein binding; protein binding; protein homodimerization activity;

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