



Anti-PAFAH1B1 (C-terminal) polyclonal antibody (DPABH-04925)

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

PRODUCT INFORMATION

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 conjugated to KLH, corresponding to 14 amino acids from near the C-terminus of Human LIS1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated

Applications	WB, IHC-P
Format	Liquid
Size	50 µg
Buffer	Constituent: 99% PBS
Preservative	0.02% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

GENE INFORMATION

Gene Name	PAFAH1B1 platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (46kDa) [Homo sapiens]
Official Symbol	PAFAH1B1
Synonyms	PAFAH1B1; platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa); MDS; LIS1; LIS2; MDCR; PAFAH; platelet-activating factor acetylhydrolase IB subunit alpha; LIS-1; PAFAH alpha; PAF-AH alpha; PAF-AH 45 kDa subunit; lissencephaly 1 protein; lissencephaly-1 protein; PAF acetylhydrolase 45 kDa subunit; platelet-activating factor acetylhydrolase, isoform Ib, subunit 1 (45kDa); platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit (45kD);
Entrez Gene ID	5048
Protein Refseq	NP_000421.1
UniProt ID	P43034
Pathway	Cell Cycle; Centrosome maturation; Ether lipid metabolism; Lissencephaly gene (LIS1) in neuronal migration and development
Function	dynactin binding; dynein binding; dynein intermediate chain binding; heparin binding