

ARG56502 anti-PAF Acetylhydrolase antibody

Package: 250 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PAF Acetylhydrolase
Tested Reactivity	Hu
Species Does Not React With	Ms, Chk, Dog, Gpig
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PAF Acetylhydrolase
Species	Human
Immunogen	Synthetic peptide around the C-terminus of Human PAF Acetylhydrolase.
Conjugation	Un-conjugated
Alternate Names	Platelet-activating factor acetylhydrolase IB subunit alpha; LIS-1; MDCR; LIS1; LIS2; PAF acetylhydrolase 45 kDa subunit; PAF-AH 45 kDa subunit; PAF-AH alpha; Lissencephaly-1 protein; PAFAH; MDS; PAFAH alpha

Application Instructions

Application table	Application	Dilution
	WB	1:200
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	TBS (pH 7.4), 0.02% Sodium azide, 50% Glycerol and 0.1% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.1% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 5048 Human](#)

[Swiss-port # P43034 Human](#)

Gene Symbol

PAFAH1B1

Gene Full Name

platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)

Background

This locus was identified as encoding a gene that when mutated or lost caused the lissencephaly associated with Miller-Dieker lissencephaly syndrome. This gene encodes the non-catalytic alpha subunit of the intracellular 1b isoform of platelet-activating factor acetylhydrolase, a heterotrimeric enzyme that specifically catalyzes the removal of the acetyl group at the SN-2 position of platelet-activating factor (identified as 1-O-alkyl-2-acetyl-sn-glycerol-3-phosphorylcholine). Two other isoforms of intracellular platelet-activating factor acetylhydrolase exist: one composed of multiple subunits, the other, a single subunit. In addition, a single-subunit isoform of this enzyme is found in serum. [provided by RefSeq, Apr 2009]

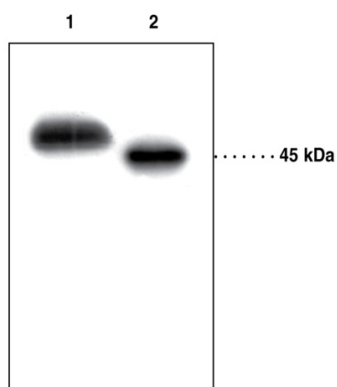
Function

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. [UniProt]

Calculated Mw

47 kDa

Images



ARG56502 anti-PAF Acetylhydrolase antibody WB image

Western blot: 1) LDL fraction from Human plasma, and 2) 20ng of Recombinant Human PAF-AH stained with ARG56502 anti-PAF Acetylhydrolase antibody.