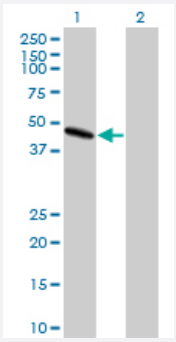
PAFAH1B1 monoclonal antibody (M03), clone 5A5

Catalog # H00005048-M03 Size 100 ug

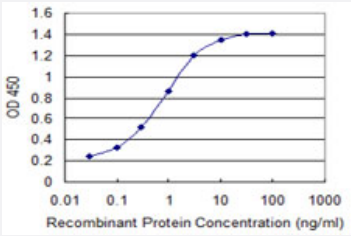
Applications



Western Blot (Transfected lysate)

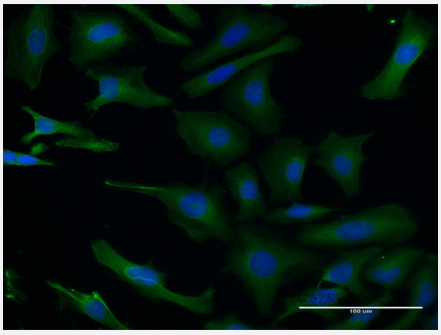
Western Blot analysis of PAFAH1B1 expression in transfected 293T cell line by PAFAH1B1 monoclonal antibody (M03), clone 5A5.

Lane 1: PAFAH1B1 transfected lysate(46.6 KDa).
Lane 2: Non-transfected lysate.



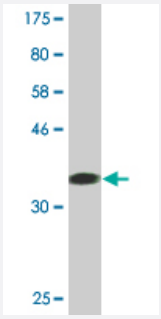
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PAFAH1B1 is 0.03 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PAFAH1B1 on HeLa cell . [antibody concentration 15 ug/ml]



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PAFAH1B1.
Immunogen	PAFAH1B1 (NP_000421, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MVLSQRQRDELNRAIADYLRSNGYEEAYSVFKKEAELDVNEELDKKYAGLLEKKWTSVIRLQKKV MELESKLNEAKEEFTSGGPLGQKRDPKEWIPRPPEKYALSGHRSP
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

  Western Blot analysis of PAFAH1B1 expression in transfected 293T cell line by PAFAH1B1 monoclonal antibody (M03), clone 5A5.

  Lane 1: PAFAH1B1 transfected lysate(46.6 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged PAFAH1B1 is 0.03 ng/ml as a capture antibody.

  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to PAFAH1B1 on HeLa cell . [antibody concentration 15 ug/ml]

Gene Info — PAFAH1B1

Entrez GeneID	5048
GeneBank Accession#	NM_000430
Protein Accession#	NP_000421
Gene Name	PAFAH1B1
Gene Alias	LIS1, LIS2, MDCR, MDS, PAFAH
Gene Description	platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit 45kDa
Omim ID	247200 601545 607432
Gene Ontology	Hyperlink
Gene Summary	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 Ib isoform of platelet-activating factor acteylhydrolase, 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-glyceryl-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
Other Designations	Platelet-activating factor acetylhydrolase, isoform 1B, alpha subunit|lissencephaly 1 protein|platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit

Publication Reference

- The mechanism of acentrosomal spindle assembly in human oocytes.

  Tianyu Wu, Jie Dong, Jing Fu, Yanping Kuang, Biaobang Chen, Hao Gu, Yuxi Luo, Ruihuan Gu, Meiling Zhang, Wen Li, Xi Dong, Xiaoxi Sun, Qing Sang, Lei Wang.

  Science 2022 Nov; 378(6621):eabq7361.

  Application: IF, Human, Human oocytes

- A liquid-like spindle domain promotes acentrosomal spindle assembly in mammalian oocytes.

  So C, Seres KB, Steyer AM, Mönnich E, Clift D, Pejkovska A, Möbius W, Schuh M.

  Science 2019 Jun; 364(6447):eaat9557.

  Application: IF, Bovine, Mouse, Ovine, Pig, NIH/3T3 cells, Oocytes

Pathway

- Ether lipid metabolism
- Metabolic pathways

Disease

- Alzheimer Disease
- Arterial Occlusive Diseases
- Atherosclerosis
- Bipolar Disorder
- Cardiomyopathy
- Cardiovascular Diseases
- Cerebral Infarction
- Chorioamnionitis
- Cleft Lip
- Cleft Palate

- Cognition
- Connective Tissue Diseases
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Epilepsy
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Glaucoma
- Graft Occlusion
- Infection
- Inflammation
- Mental Disorders
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Neuromyelitis Optica
- Neuropsychological Tests
- Obstetric Labor
- Postmortem Changes
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Schizophrenia

- Skin Diseases