

Mouse anti-Human GPD1L Monoclonal Antibody | anti-GPD1L antibody

GPD1L antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48226	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

GPD1L; Monoclonal Antibody; GPD1L antibody; Glycerol-3-phosphate dehydrogenase 1-like protein; GPD1-L; anti-GPD1L antibody

PRODUCT SPECIFICATIONS

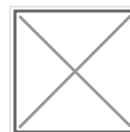
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT14E2
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	351
Applicable Applications for anti-GPD1L antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human GPD1L (1-351aa) purified from E. coli
Clone Note	Anti-human GPD1L mAb, clone AT14E2, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human GPD1L protein
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of GPD1L in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human GPD1L antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GPD1L antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : MCF7 cell lysate Lane 2. : 293T cell lysate Lane 3. : Jurkat cell lysate Lane 4 : SW480 cell lysate Lane 5 : PC3 cell lysate The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GPD1L antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : 293T cell lysate Lane 2. : GPD1L Transfected 293T cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-GPD1L antibody	GPD1L is converts sn-glycerol 3-phosphate to glycerone phosphate. This protein is found in the cytoplasm, associated with the plasma membrane, where it binds the sodium channel, voltage-gated, type V, alpha subunit (SCN5A). GPD1L is thought to affect trafficking of the cardiac sodium current to the cell surface. Mutations in GPD1L are the cause of sudden infant death syndrome (SIDS) and Brugada syndrome type 2, an autosomal dominant tachyarrhythmia.
Product Categories/Family for anti-GPD1L antibody	Signal Transduction; Metabolism
References	Valdivia CR., et al. (2009) Am. J. Physiol. 297: H1446-H1452.; Van Norstrand DW., et al. (2007) Circulation. 116: 2253-2259.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	24307999
NCBI GeneID	23171
NCBI Accession #	NP_055956
NCBI GenBank Nucleotide #	NM_015141.3
UniProt Accession #	Q8N335; Q14702; Q9BRM5; A8K9U3
Molecular Weight	38,419 Da
NCBI Official Full Name	glycerol-3-phosphate dehydrogenase 1-like protein
NCBI Official Synonym Full Names	glycerol-3-phosphate dehydrogenase 1 like
NCBI Official Symbol	GPD1L
NCBI Official Synonym Symbols	GPD1-L
NCBI Protein Information	glycerol-3-phosphate dehydrogenase 1-like protein
UniProt Protein Name	Glycerol-3-phosphate dehydrogenase 1-like protein
UniProt Gene Name	GPD1L
UniProt Synonym Gene Names	KIAA0089; GPD1-L

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.