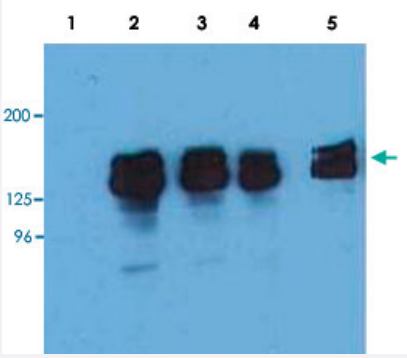
INPP5D monoclonal antibody, clone SHIP-01

Catalog # MAB3645 Size 100 ug

Applications



Western Blot (Cell lysate)

Western Blotting analysis (reducing conditions) of human INPP5D in whole cell lysate of THP-1 (human acute monocytic leukemia cell line).
Lane 1 : Immunostaining with Isotype mouse IgG1 control.
Lane 2, 3 : Immunostaining with INPP5D monoclonal antibody, clone SHIP-01 (Cat # MAB3645) Lane 4, 5 : Immunostaining with INPP5D monoclonal antibody, clone SHIP-02 (Cat # MAB3646).

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of INPP5D.
Immunogen	A synthetic peptide corresponding to N-terminus human INPP5D.
Host	Mouse
Theoretical MW (kDa)	110, 125, 130, 135,
Reactivity	Human
Specificity	This antibody reacts with SHIP-1, a phosphoinositide phosphatase largely confined to hematopoietic cells. Multiple forms of SHIP-1 have been reported with molecular weights of 110, 125, 130, 135 and 145 KDa.
Form	Liquid
Isotype	IgG2a
Recommend Usage	Flow Cytometry (2-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western Blotting analysis (reducing conditions) of human INPP5D in whole cell lysate of THP-1 (human acute monocytic leukemia cell line).
  Lane 1 : Immunostaining with Isotype mouse IgG1 control.
  Lane 2, 3 : Immunostaining with INPP5D monoclonal antibody, clone SHIP-01 (Cat # MAB3645) Lane 4, 5 : Immunostaining with INPP5D monoclonal antibody, clone SHIP-02 (Cat # MAB3646).

- Flow Cytometry

Gene Info — INPP5D

Entrez GeneID	3635
Gene Name	INPP5D
Gene Alias	MGC104855, MGC142140, MGC142142, SHIP, SHIP1, SIP-145, hp51CN
Gene Description	inositol polyphosphate-5-phosphatase, 145kDa
Omim ID	601582
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the inositol polyphosphate-5-phosphatase (INPP5) family and encodes a protein with an N-terminal SH2 domain, an inositol phosphatase domain, and two C-terminal pr otein interaction domains. Expression of this protein is restricted to hematopoietic cells where its movement from the cytosol to the plasma membrane is mediated by tyrosine phosphorylation. At t he plasma membrane, the protein hydrolyzes the 5' phosphate from phosphatidylinositol (3,4,5)-tri sphosphate and inositol-1,3,4,5-tetrakisphosphate, thereby affecting multiple signaling pathways. Overall, the protein functions as a negative regulator of myeliod cell proliferation and survival. Alter nate transcriptional splice variants, encoding different isoforms, have been characterized. [provid ed by RefSeq
Other Designations	SH2 containing inositol phosphatase|SH2 containing inositol phosphatase, isoform b|p150Ship|si gnaling inositol polyphosphate 5 phosphatase SIP-145

Publication Reference

- Ras and its signals diffuse through the cell on randomly moving nanoparticles.

  Rotblat B, Yizhar O, Haklai R, Ashery U, Kloog Y.

  Cancer Research 2006 Feb; 66(4):1974.

- Individual palmitoyl residues serve distinct roles in H-ras trafficking, microlocalization, and signaling.

  Roy S, Plowman S, Rotblat B, Prior IA, Muncke C, Grainger S, Parton RG, Henis YI, Kloog Y, Hancock JF.

  Molecular and Cellular Biology 2005 Aug; 25(15):6722.

- Three separable domains regulate GTP-dependent association of H-ras with the plasma membrane.

  Rotblat B, Prior IA, Muncke C, Parton RG, Kloog Y, Henis YI, Hancock JF.

  Molecular and Cellular Biology 2004 Aug; 24(15):6799.

Pathway

- B cell receptor signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Insulin signaling pathway
- Phosphatidylinositol signaling system

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Hepatitis C
- Tobacco Use Disorder