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Anti-INPP5D / SHIP1 / SHIP Antibody (N-Terminus, clone SHIP-01)

Mouse Anti Human Monoclonal Antibody
Catalog # ALS17381

Specification

Anti-INPP5D / SHIP1 / SHIP Antibody (N-Terminus, clone SHIP-01) - Product Information

Application	**WB, IHC-P, FC**
Primary Accession	Q92835
Predicted	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a**
Calculated MW	**133292**

Anti-INPP5D / SHIP1 / SHIP Antibody (N-Terminus, clone SHIP-01) - Additional Information

Gene ID 3635

Alias Symbol	**INPP5D**

Other Names
INPP5D, p150Ship, SHIP, SHIP1, SHIP-1, Hp51CN, SIP-145

Target/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 kD.

Reconstitution & Storage
PBS, pH 7.4, 15 mM sodium azide. Store at 2-8°C. Do not freeze.

Precautions
Anti-INPP5D / SHIP1 / SHIP Antibody (N-Terminus, clone SHIP-01) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-INPP5D / SHIP1 / SHIP Antibody (N-Terminus, clone SHIP-01) - Protein Information

Name INPP5D

Synonyms SHIP {ECO:0000303|PubMed:10764818}, SHIP

Function
Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3) to produce PtdIns(3,4)P2, thereby negatively regulating the PI3K (phosphoinositide 3-kinase) pathways (PubMed:8723348, PubMed:10764818, PubMed:8769125). Able also to

hydrolyzes the 5-phosphate of phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P3) and inositol 1,3,4,5-tetrakisphosphate (PubMed:9108392, PubMed:10764818, PubMed:8769125). Acts as a negative regulator of B- cell antigen receptor signaling. Mediates signaling from the FC-gamma- RIIB receptor (FCGR2B), playing a central role in terminating signal transduction from activating immune/hematopoietic cell receptor systems. Acts as a negative regulator of myeloid cell proliferation/survival and chemotaxis, mast cell degranulation, immune cells homeostasis, integrin alpha-IIb/beta-3 signaling in platelets and JNK signaling in B-cells. Regulates proliferation of osteoclast precursors, macrophage programming, phagocytosis and activation and is required for endotoxin tolerance. Involved in the control of cell-cell junctions, CD32a signaling in neutrophils and modulation of EGF-induced phospholipase C activity (PubMed:16682172). Key regulator of neutrophil migration, by governing the formation of the leading edge and polarization required for chemotaxis. Modulates FCGR3/CD16-mediated cytotoxicity in NK cells. Mediates the activin/TGF-beta-induced apoptosis through its Smad-dependent expression.

Cellular Location
Cytoplasm. Cell membrane {ECO:0000250|UniProtKB:Q9ES52}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9ES52}. Membrane raft {ECO:0000250|UniProtKB:Q9ES52}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9ES52}. Membrane; Peripheral membrane protein Note=Translocates to the plasma membrane when activated, translocation is probably due to different mechanisms depending on the stimulus and cell type. Translocates from the cytoplasm to membrane ruffles in a FCGR3/CD16-dependent manner. Colocalizes with FC-gamma-RIIB receptor (FCGR2B) or FCGR3/CD16 at membrane ruffles. Tyrosine phosphorylation may also participate in membrane localization {ECO:0000250|UniProtKB:Q9ES52}

Tissue Location
Specifically expressed in immune and hematopoietic cells. Expressed in bone marrow and blood cells. Levels vary considerably within this compartment. Present in at least 74% of immature CD34+ cells, whereas within the more mature population of CD33+ cells, it is present in only 10% of cells. Present in the majority of T-cells, while it is present in a minority of B-cells (at protein level).

Anti-INPP5D / SHIP1 / SHIP Antibody (N-Terminus, clone SHIP-01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-INPP5D / SHIP1 / SHIP Antibody (N-Terminus, clone SHIP-01) - Images