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# INPP5D antibody - C-terminal region
**Rabbit Polyclonal Antibody**
**Catalog # AI14603**

## Specification

### INPP5D antibody - C-terminal region - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | Q92835 |
| Other Accession | NM_001017915, NP_001017915 |
| Reactivity | **Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog** |
| Predicted | **Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **131kDa KDa** |

### INPP5D antibody - C-terminal region - Additional Information

**Gene ID** 3635

| | |
|---|---|
| Alias Symbol | **MGC104855, MGC142140, MGC142142, SHIP, SHIP1, SIP-145, hp51CN** |

**Other Names**
Phosphatidylinositol 3, 4, 5-trisphosphate 5-phosphatase 1, 3.1.3.86, Inositol polyphosphate-5-phosphatase of 145 kDa, SIP-145, SH2 domain-containing inositol 5'-phosphatase 1, SH2 domain-containing inositol phosphatase 1, SHIP-1, p150Ship, hp51CN, INPP5D, SHIP, SHIP1

**Format**
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**
Add 50 ul of distilled water. Final anti-INPP5D antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**
INPP5D antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

### INPP5D antibody - C-terminal region - 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:<a href="http://www.uniprot.org/citations/8723348" target="_blank">8723348</a>, PubMed:<a href="http://www.uniprot.org/citations/10764818" target="_blank">10764818</a>, PubMed:<a href="http://www.uniprot.org/citations/8769125" target="_blank">8769125</a>). Able also to hydrolyzes the 5-phosphate of phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P3) and inositol 1,3,4,5-tetrakisphosphate (PubMed:<a href="http://www.uniprot.org/citations/9108392" target="_blank">9108392</a>, PubMed:<a href="http://www.uniprot.org/citations/10764818" target="_blank">10764818</a>, PubMed:<a href="http://www.uniprot.org/citations/8769125" target="_blank">8769125</a>). 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:<a href="http://www.uniprot.org/citations/16682172" target="_blank">16682172</a>). 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).

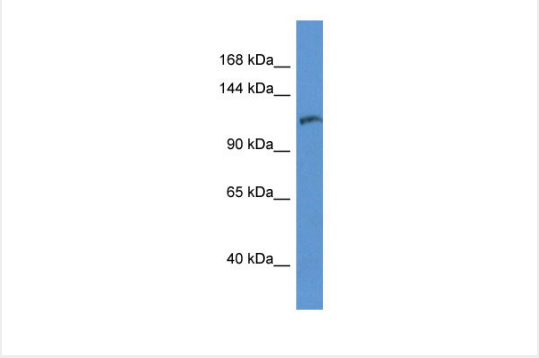
## INPP5D antibody - C-terminal region - Protocols

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

## INPP5D antibody - C-terminal region - Images

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WB Suggested Anti-INPP5D Antibody Titration: 1.0 µg/ml
Positive Control: THP-1 Whole Cell

**INPP5D antibody - C-terminal region - References**

Drayer A.L.,et al.Biochem. Biophys. Res. Commun. 225:243-249(1996).
Ware M.D.,et al.Blood 88:2833-2840(1996).
Kavanaugh W.M.,et al.Curr. Biol. 6:438-445(1996).
Geier S.J.,et al.Blood 89:1876-1885(1997).
Odai H.,et al.Blood 89:2745-2756(1997).