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**anti-SHIP**

Cat #: HM1332  
Goat polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

The SH2-domain-containing inositol 5-phosphatase (SHIP) hydrolyzes PtdIns(3,4,5)P<sub>3</sub> to PtdIns(3,4)Ps. It is activated by multiple cytokines and growth factors. After activation, SHIP is recruited to tyrosine phosphorylated, plasma membrane-bound proteins, such as the low-affinity, immunoglobulin G receptor FcγRIIB. SHIP is a negative regulator of hemopoietic cell proliferation, survival and end cell activation. SHIP is a target for CD28, suggesting that SHIP may be involved in the regulation of T cell activation. SHIP is also expressed in fibroblasts, heart, skeletal muscle and different brain areas and its expression is enhanced in TSH and EGF stimulated cells. SHIP-2 is a homolog of SHIP and is expressed in both haemopoietic and nonhaemopoietic cells. SHIP-2 causes cell cycle arrest in G1 phase in glioblastoma cells and plays a negative role in regulating the PI3K-PI3K-protein kinase B pathway.

**SPECIFICITY**

This antibody reacts with SHIP of mouse, rat and human origin. It also reacts with SHIP-2.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

Molecular weight of SHIP-1: 145 kDa.

**IMMUNOGEN**

A recombinant protein corresponding to the amino terminus of human SHIP.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCES**

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