

Product datasheet

Anti-SHIP antibody [SHIP-01] ab65807

1 References [画像数 1](#)

製品の概要

製品名	Anti-SHIP antibody [SHIP-01]
製品の詳細	Mouse monoclonal [SHIP-01] to SHIP
アプリケーション	適用あり: WB, ELISA
種交差性	交差種: Human
免疫原	Synthetic peptide corresponding to a sequence within the N-terminal domain of Human SHIP.
ポジティブ・コントロール	RAMOS human cell line. Whole cell lysate of THP-1 human acute monocytic leukemia cell line.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: 15mM Sodium Azide Constituents: PBS, pH 7.4
精製度	Protein A purified
特記事項 (精製)	ab65807 was purified from ascites by protein A affinity chromatography. The purity is > 95% (by SDS-PAGE).
ポリ/モノ	モノクローナル
クローン名	SHIP-01
アイソタイプ	IgG2a

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab65807** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		
ELISA		

追加情報

ELISA: Use at an assay dependent dilution.

WB: Use at an assay dependent dilution. Detects bands of approximately 110, 125, 135 & 145 kDa (predicted molecular weight: 133 kDa).

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

ターゲット情報

機能

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. Acts as a negative regulator of B-cell antigen receptor signaling. Mediates signaling from the FC-gamma-R1IB 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. 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. May also hydrolyze PtdIns(1,3,4,5)P4, and could thus affect the levels of the higher inositol polyphosphates like InsP6.

組織特異性

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).

配列類似性

Belongs to the inositol-1,4,5-trisphosphate 5-phosphatase family.
Contains 1 SH2 domain.

ドメイン

The SH2 domain interacts with tyrosine phosphorylated forms of proteins such as SHC1 or PTPN11/SHP-2. It competes with that of GRB2 for binding to phosphorylated SHC1 to inhibit the Ras pathway. It is also required for tyrosine phosphorylation.
The NPXY sequence motif found in many tyrosine-phosphorylated proteins is required for the specific binding of the PID domain.

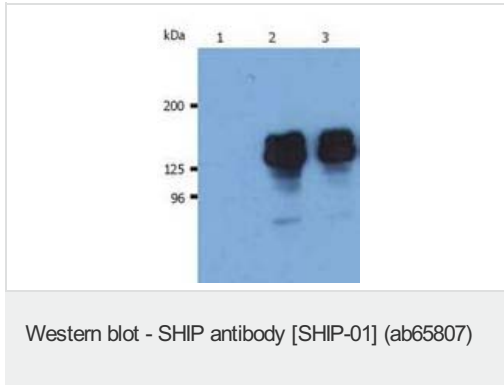
翻訳後修飾

Tyrosine phosphorylated by the members of the SRC family after exposure to a diverse array of extracellular stimuli such as cytokines, growth factors, antibodies, chemokines, integrin ligands and hypertonic and oxidative stress. Phosphorylated upon IgG receptor FCGR2B-binding.

細胞内局在

Cytoplasm. Membrane. Translocates to the plasma membrane when activated, translocation is probably due to different mechanisms depending on the stimulus and cell type. Partly translocated via its SH2 domain which mediates interaction with tyrosine phosphorylated receptors such as the FC-gamma-R1IB receptor (FCGR2B) or CD16/FCGR3. Tyrosine phosphorylation may also participate to membrane localization.

画像



Lane 1 : Isotype mouse IgG1 control

Lanes 2 - 3 : Anti-SHIP antibody [SHIP-01] (ab65807)

Lane 1 : whole cell lysate of THP-1 human acute monocytic leukemia cell line.

Lane 2 : whole cell lysate of THP-1 human acute monocytic leukemia cell line.

Lane 3 : whole cell lysate of THP-1 human acute monocytic leukemia cell line.

Predicted band size : 133 kDa

Observed band size : 110,125,135,145 kDa

Additional bands at : 80 kDa. We are unsure as to the identity of these extra bands.

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