产品货号: APRab17865



产品概述 (Summary)

产品名称 (Production Name) SHIP-2 Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit

应用 (Application)WB,IHC,ICC/IF,ELISA种属反应性 (Reactivity)Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)Unconjugated修饰 (Modification)Unmodified

同种型 (Isotype) IgG

克隆 (Clonality) Polyclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name) INPPL1

INPPL1; SHIP2; Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2;

Inositol polyphosphate phosphatase-like protein 1; INPPL-1; Protein 51C; SH2

别名 (Alternative Names)

domain-containing inositol 5'-phosphatase 2; SH2 domain-containing inositol

domain-containing mositor 3 -phosphatase 2, 3112 domain-containing mositor

phosphatase 2; SHIP-2

基因 ID (Gene ID) 3636.0

O15357.The antiserum was produced against synthesized peptide derived 蛋白ID (SwissProt ID)

from the Internal region of human INPPL1. AA range:351-400

产品应用 (Application)

稀释比 (Dilution Ratio) WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000

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蛋白分子量 (Molecular Weight) 130kDa

研究背景 (Background)

The protein encoded by this gene is an SH2-containing 5'-inositol phosphatase that is involved in the regulation of insulin function. The encoded protein also plays a role in the regulation of epidermal growth factor receptor turnover and actin remodelling. Additionally, this gene supports metastatic growth in breast cancer and is a valuable biomarker for breast cancer. [provided by RefSeq, Jan 2009],catalytic activity:Phosphatidylinositol 3,4,5-trisphosphate + H(2)O = phosphatidylinositol 3,4-bisphosphate + phosphate., disease: Defects in INPPL1 may be a cause of susceptibility to type 2 diabetes mellitus non-insulin dependent (NIDDM) [MIM:125853], disease: Genetic variations in INPPL1 may be a cause of susceptibility to metabolic syndrome. Metabolic syndrome is characterized by diabetes, insulin resistance, hypertension, and hypertriglyceridemia is absent., domain: The NPXY sequence motif found in many tyrosine-phosphorylated proteins is required for the specific binding of the PID domain.,domain:The SH2 domain interacts with tyrosine phosphorylated forms of proteins such as SHC1 or FCGR2A. It also mediates the interaction with p130Cas/BCAR1, enzyme regulation: Activated upon translocation to the sites of synthesis of PtdIns(3,4,5)P3 in the membrane. Enzymatic activity is enhanced in the presence of phosphatidylserine, function: Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5phosphate 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. Plays a central role in regulation of PI3K-dependent insulin signaling, although the precise molecular mechanisms and signaling pathways remain unclear. While overexpression reduces both insulin-stimulated MAP kinase and Akt activation, its absence does not affect insulin signaling or GLUT4 trafficking. Confers resistance to dietary obesity. May act by regulating AKT2, but not AKT1, phosphorylation at the plasma membrane. Part of a signaling pathway that regulates actin cytoskeleton remodeling. Required for the maintenance and dynamic remodeling of actin structures as well as in endocytosis, having a major impact on ligand-induced EGFR internalization and degradation. Participates in regulation of cortical and submenbraneous actin by hydrolyzing PtdIns(3,4,5)P3 thereby regulating membrane ruffling. Regulates cell adhesion and cell spreading. Required for HGFmediated lamellipodium formation, cell scattering and spreading. Acts as a negative regulator of EPHA2 receptor endocytosis by inhibiting via PI3K-dependent Rac1 activation. Acts as a regulator of neuritogenesis by regulating PtdIns(3,4,5)P3 level and is required to form an initial protrusive pattern, and later, maintain proper neurite outgrowth. Acts as a negative regulator of the FC-gamma-RIIA receptor (FCGR2A). Mediates signaling from the FC-gamma-RIIB receptor (FCGR2B), playing a central role in terminating signal transduction from activating immune/hematopoietic cell receptor systems. Involved in EGF signaling pathway. Upon stimulation by EGF, it is recruited by EGFR and dephosphorylates PtdIns(3,4,5)P3. Plays a negative role in regulating the PI3K-PKB pathway, possibly by inhibiting PKB activity. Downregulates Fc-gamma-R-mediated phagocytosis in macrophages independently of INPP5D/SHIP1. In macrophages, downregulates NF-kappa-B-dependent gene transcription by regulating macrophage colony-stimulating factor (M-CSF)-induced signaling. May also hydrolyze PtdIns(1,3,4,5)P4, and could thus affect the levels of the higher inositol polyphosphates like InsP6., induction: By treatment with bacterial lipopolysaccharide., miscellaneous: Its ability to confers resistance to dietary obesity suggest that it may serve as a possible therapeutic target in cases of type 2 diabetes and obesity, PTM: Tyrosine

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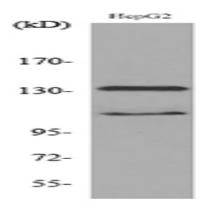


phosphorylated by the members of the SRC family after exposure to a diverse array of extracellular stimuli such as insulin, growth factors such as EGF or PDGF, chemokines, integrin ligands and hypertonic and oxidative stress. May be phosphorylated upon IgG receptor FCGR2B-binding. Phosphorylated at Tyr-986 following cell attachment and spreading. Phosphorylated at Tyr-1162 following EGF signaling pathway stimulation. Phosphorylated at Thr-958 in response to PDGF., similarity: Belongs to the inositol-1,4,5-trisphosphate 5-phosphatase family., similarity: Contains 1 SAM (sterile alpha motif) domain., similarity: Contains 1 SH2 domain., subcellular location: Translocates to membrane ruffles 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-RIIB receptor (FCGR2B). Tyrosine phosphorylation may also participate to membrane localization. Insulin specifically stimulates its redistribution from the cytosol to the plasma membrane. Recruited to the membrane following M-CSF stimulation., subunit: Interacts with tyrosine phosphorylated form of SHC1, Interacts with EGFR. Upon stimulation by the EGF signaling pathway, it forms a complex with SHC1 and EGFR. Interacts with cytoskeletal protein SORBS3/vinexin, promoting its localization to the periphery of cells. Forms a complex with filamin (FLNA or FLNB), actin, GPIb (GP1BA or GP1BB) that regulates cortical and submenbraneous actin. Interacts with c-Met/MET, when c-Met/MET is phosphorylated on 'Tyr-1356'. Interacts with p130Cas/BCAR1. Interacts with CENTD3/ARAP3 via its SAM domain. Interacts with c-Cbl/CBL and CAP/SORBS1. Interacts with activated EPHA2 receptor. Interacts with receptors FCGR2A and FCGR2B. Interacts with tyrosine kinases ABL1 and TEC. Interacts with CSF1R, tissue specificity: Widely expressed, most prominently in skeletal muscle, heart and brain. Present in platelets. Expressed in transformed myeloid cells and in primary macrophages, but not in peripheral blood monocytes.,

研究领域(Research Area)

Inositol phosphate metabolism; Phosphatidylinositol signaling system;

图片 (Image Data)

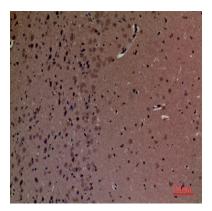


Western blot analysis of lysate from HepG2 cells, using INPPL1 Antibody.

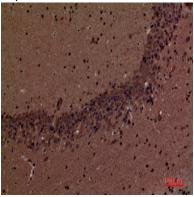
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Immunohistochemical analysis of paraffin-embedded mouse-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded mouse-brain, antibody was diluted at 1:100

注意事项 (Note)

For research use only.

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