





产品概述 (Summary)

SH-PTP2 (phospho Tyr542) Rabbit Polyclonal Antibody 产品名称 (Production Name)

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)

Unconjugated 偶联物 (Conjugation) 修饰 (Modification) Phosphorylated

同种型 (Isotype) IgG

Polyclonal 克隆 (Clonality) 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) PTPN11

PTPN11; PTP2C; SHPTP2; Tyrosine-protein phosphatase non-receptor type 11;

别名 (Alternative Names) Protein-tyrosine phosphatase 1D; PTP-1D; Protein-tyrosine phosphatase 2C;

PTP-2C; SH-PTP2; SHP-2; Shp2; SH-PTP3

基因 ID (Gene ID)

Q06124.The antiserum was produced against synthesized peptide derived

from human SHP-2 around the phosphorylation site of Tyr542. AA range:508-蛋白 ID (SwissProt ID)

557

产品应用(Application)

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稀释比 (Dilution Ratio) WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000

蛋白分子量 (Molecular Weight) 70kDa

研究背景 (Background)

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains two tandem Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia. [provided by RefSeq, Aug 2016], catalytic activity: Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate, disease: Defects in PTPN11 are a cause of juvenile myelomonocytic leukemia (JMML) [MIM:607785]. JMML is a pediatric myelodysplastic syndrome that constitutes approximately 30% of childhood cases of myelodysplastic syndrome (MDS) and 2% of leukemia. It is characterized by leukocytosis with tissue infiltration and in vitro hypersensitivity of myeloid progenitors to granulocyte-macrophage colony stimulating factor.,disease:Defects in PTPN11 are a cause of Noonan-like syndrome [MIM:163955]; also known as Noonan-like/multiple giant cell lesion syndrome. It is an autosomal dominant disorder characterized by Noonan features associates with giant cell lesions of bone and soft tissue...disease:Defects in PTPN11 are the cause of LEOPARD syndrome [MIM:151100]. It is an autosomal dominant disorder allelic with Noonan syndrome. The acronym LEOPARD stands for lentigines, electrocardiographic conduction abnormalities, ocular hypertelorism, pulmonic stenosis, abnormalities of genitalia, retardation of growth, and deafness., disease: Defects in PTPN11 are the cause of Noonan syndrome 1 (NS1) [MIM:163950]. Noonan syndrome (NS) is a disorder characterized by dysmorphic facial features, short stature, hypertelorism, cardiac anomalies, deafness, motor delay, and a bleeding diathesis. It is a genetically heterogeneous and relatively common syndrome, with an estimated incidence of 1 in 1000-2500 live births. Mutations in PTPN11 account for more than 50% of the cases. Rarely, NS is associated with juvenile myelomonocytic leukemia (JMML). NS1 inheritance is autosomal dominant., domain: The SH2 domains repress phosphatase activity. Binding of these domains to phosphotyrosine-containing proteins relieves this auto-inhibition, possibly by inducing a conformational change in the enzyme., function: Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus.,PTM:Phosphorylated on Tyr-546 and Tyr-584 upon receptor protein tyrosine kinase activation; which creates a binding site for GRB2 and other SH2-containing proteins,, similarity; Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily, similarity: Contains 1 tyrosine-protein phosphatase domain.,similarity:Contains 2 SH2 domains.,subunit:Interacts with phosphorylated LIME1 and BCAR3. Interacts with SHB and INPP5D/SHIP1 (By similarity). Interacts with PTPNS1 and CD84. Interacts with phosphorylated SIT1 and MPZL1. Interacts with FCRL3, FCRL4, FCRL6 and ANKHD1.,tissue specificity: Widely expressed, with highest levels in heart, brain, and skeletal muscle.,

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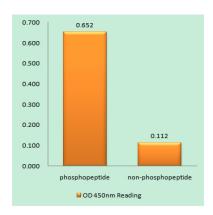




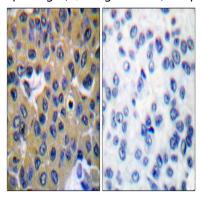
研究领域 (Research Area)

Insulin Receptor; B Cell Receptor; MAPK; Protein_Acetylation

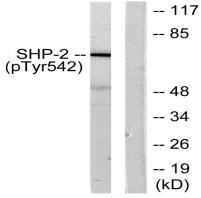
图片 (Image Data)



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using SHP-2 (Phospho-Tyr542) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using SHP-2 (Phospho-Tyr542) Antibody. The picture on the right is blocked with the phospho peptide.

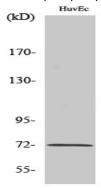


Western blot analysis of lysates from A431 cells, using SHP-2 (Phospho-Tyr542) Antibody. The lane on the right is blocked

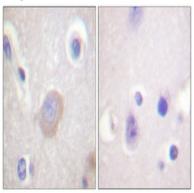
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with the phospho peptide.



Western Blot analysis of various cells using Phospho-SH-PTP2 (Y542) Polyclonal Antibody diluted at 1: 1000



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

注意事项 (Note)

For research use only.

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