


Anti-SHP2 antibody [Y477] ab32159

敲除验证 重组 RabMAb

★★★★☆ 1 Abreviews 3 图像

概述

产品名称	Anti-SHP2抗体[Y477]
描述	兔单克隆抗体[Y477] to SHP2
宿主	Rabbit
特异性	This antibody recognises SHP2. It is predicted to detect splice isoforms 2 and 3 based on sequence analysis.
经测试应用	适用于: WB 不适用于: Flow Cyt
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide within Human SHP2 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: Q06124
阳性对照	WB: Wild-type HAP1 cell lysate. Jurkat and A431 cell lysate.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
克隆	单克隆

克隆编号 Y477
同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab32159于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/1000. Detects a band of approximately 65 kDa (predicted molecular weight: 68 kDa).

应用说明 Is unsuitable for Flow Cyt.

靶标

功能 Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus.

组织特异性 Widely expressed, with highest levels in heart, brain, and skeletal muscle.

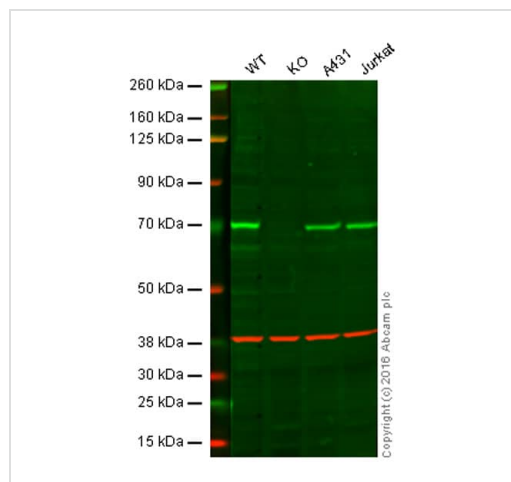
疾病相关 Defects in PTPN11 are the cause of LEOPARD syndrome type 1 (LEOPARD1) [MIM:151100]. It is an autosomal dominant disorder allelic with Noonan syndrome. The acronym LEOPARD stands for lentigines, electrocardiographic conduction abnormalities, ocular hypertelorism, pulmonic stenosis, abnormalities of genitalia, retardation of growth, and deafness.
Defects in PTPN11 are the cause of Noonan syndrome type 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. Some patients with Noonan syndrome type 1 develop multiple giant cell lesions of the jaw or other bony or soft tissues, which are classified as pigmented villomoduolar synovitis (PVNS) when occurring in the jaw or joints. Note=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.
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.
Defects in PTPN11 are a cause of metachondromatosis (MC) [MIM:156250]. It is a skeletal disorder with radiologic fetarures of both multiple exostoses and Ollier disease, characterized by the presence of multiple enchondromas and osteochondroma-like lesions.

序列相似性 Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily.
Contains 2 SH2 domains.
Contains 1 tyrosine-protein phosphatase domain.

结构域 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.

翻译后修饰 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.

图片



Western blot - Anti-SHP2 antibody [Y477] (ab32159)

Lane 1: Wild-type HAP1 cell lysate (20 μ g)

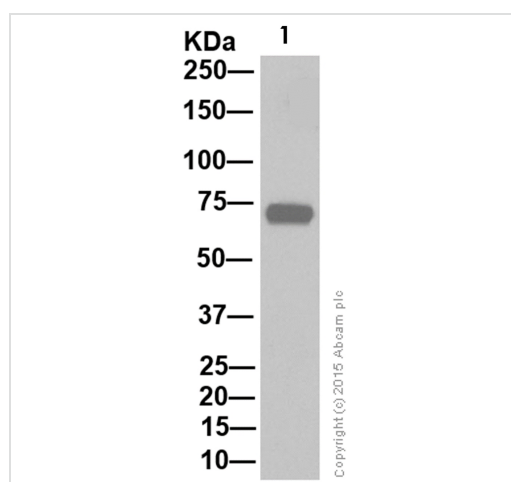
Lane 2: SHP2 knockout HAP1 cell lysate (20 μ g)

Lane 3: A431 cell lysate (20 μ g)

Lane 4: Jurkat cell lysate (20 μ g)

Lanes 1 to 4: Merged signal (red and green). Green - ab32159 observed at 68 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab32159 was shown to specifically react with SHP2 when SHP2 knockout samples were used. Wild-type and SHP2 knockout samples were subjected to SDS-PAGE. ab32159 and **ab8245** (loading control to GAPDH) were both diluted 1/1000 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-SHP2 antibody [Y477] (ab32159)

Anti-SHP2 antibody [Y477] (ab32159) at 1/2000 dilution + Jurkat (Human T cell leukemia T lymphocyte) Whole cell lysate at 20 μ g

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 68 kDa

Observed band size: 72 kDa

Exposure time: 7 seconds

Blocking / Dilution buffer and concentration:

5% NFDN/TBST

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-SHP2 antibody [Y477] (ab32159)

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