abcam

Product datasheet

Anti-SHP2 antibody ab9214

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製品の概要

製品名	Anti-SHP2 antibody
製品の詳細	Goat polyclonal to SHP2
由来種	Goat
アプリケーション	**適用あり:** WB, ICC/IF, Flow Cyt (Intra)
種交差性	**交差種:** Human **交差が予測される動物種:** Rat, Cow, Pig
免疫原	Synthetic peptide corresponding to Human SHP2 aa 550 to the C-terminus (C terminal). (NP_001317366.1) Database link: **NP_002825.3** Run BLAST with Run BLAST with
ポジティブ・コントロール	WB: Human muscle lysate. ICC/IF: HeLa cells Flow Cyt (intra): A431 cells
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
精製度	Immunogen affinity purified
特記事項（精製）	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
ポリ/モノ	ポリクローナル

アイソタイプ IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab9214の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 70 kDa (predicted molecular weight: 68 kDa). 1 hour primary incubation is recommended for this product.
ICC/IF	★★★★☆ (1)	Use a concentration of 10 µg/ml.
Flow Cyt (Intra)		Use a concentration of 10 µg/ml.

ターゲット情報

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

組織特異性 Widely expressed, with highest levels in heart, brain, and skeletal muscle.

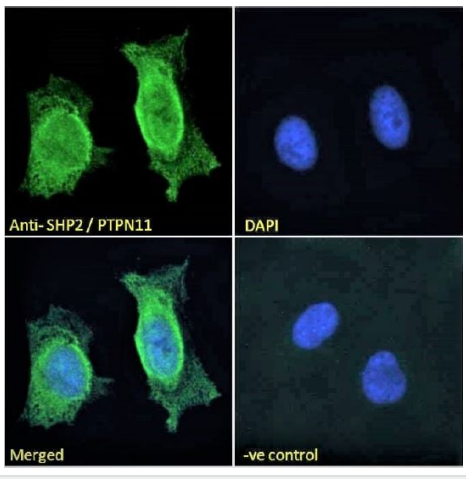
関連疾患 Defects in PTPN11 are the cause of LEOPARD syndrome type 1 (LEOPARD1) [MIM:151100]. It is an autosomal dominant disorder allelic with Noonan syndrome. The acronym LEOPARD stands for lentigines, electrocardiographic conduction abnormalities, ocular hypertelorism, pulmonic stenosis, abnormalities 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.

配列類似性 Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily.
Contains 2 SH2 domains.
Contains 1 tyrosine-protein phosphatase domain.

ドメイン 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.

翻訳後修飾	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.
細胞内局在	Cytoplasm.

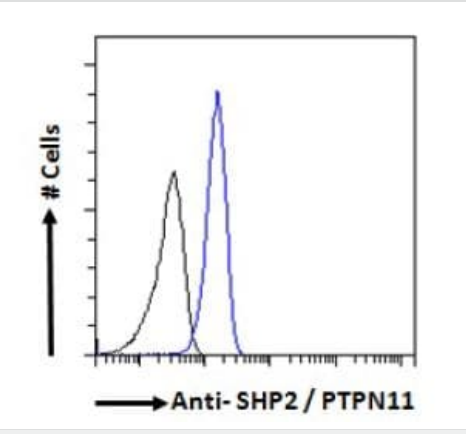
画像



Immunocytochemistry/ Immunofluorescence - Anti-SHP2 antibody (ab9214)

Immunocytochemistry/Immunofluorescence analysis of paraformaldehyde-fixed, 0.15% triton-permeabilized HeLa cells staining SHP2 antibody with ab9214 at 10µg/ml, followed by Alexa Fluor 488 secondary antibody at 2ug/ml. DAPI was used as a nuclear counterstain.

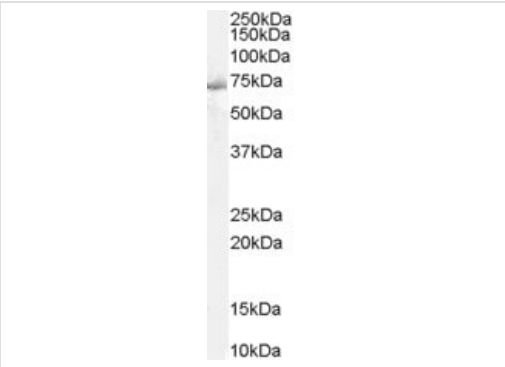
Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody at 2ug/ml



Flow Cytometry (Intracellular) - Anti-SHP2 antibody (ab9214)

Flow cytometric analysis of paraformaldehyde-fixed, 0.5% Triton-permeabilized A431 cells (blue) staining SHP2 with ab9214 at 10µg/ml, followed by Alexa Fluor 488 secondary antibody at 1ug/ml. Primary incubation carried out for one hour.

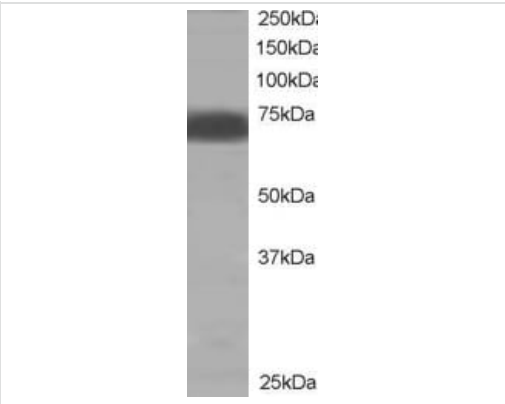
IgG control: Unimmunized goat IgG followed by Alexa Fluor 488 secondary antibody (black).



Western blot - Anti-SHP2 antibody (ab9214)

Anti-SHP2 antibody (ab9214) at 2 µg/ml + Human muscle lysate at 35 µg

Predicted band size: 68 kDa



Western blot - Anti-SHP2 antibody (ab9214)

ab9214 staining (2µg/ml) of Human Muscle lysate (RIPA buffer, 35µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence. ab9214 staining (2µg/ml) of Human Muscle lysate (RIPA buffer, 35µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

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