abcam

Product datasheet

Anti-SHP2 antibody ab10555

KO **評価済**

★★★★☆ **1 Abreviews** **5 References** **画像数** 2

製品の概要

製品名	Anti-SHP2 antibody
製品の詳細	Rabbit polyclonal to SHP2
由来種	Rabbit
アプリケーション	**適用あり:** WB
種交差性	**交差種:** Human
	交差が予測される動物種: Mouse, Rat ⚠
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	This antibody gave a positive signal in the following whole cell lysate: Jurkat.
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: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
精製度	Immunogen affinity purified

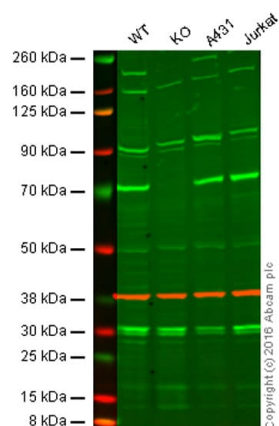| ポリ/モノ	ポリクローナル
アイソタイプ	IgG

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ab10555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	★★★★☆ (1)	Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 68 kDa.

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.

Western blot - Anti-SHP2 antibody (ab10555)

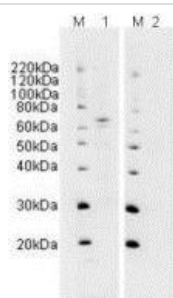**Lane 1:** Wild-type HAP1 cell lysate (20 μg)

Lane 2: SHP2 knockout HAP1 cell lysate (20 μg)

Lane 3: A431 cell lysate (20 μg)

Lane 4: Jurkat cell lysate (20 μg)

Lanes 1 to 4: Merged signal (red and green). Green - ab10555 observed at 70 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab10555 was shown to recognize SHP2 when SHP2 knockout samples were used, along with additional cross-reactive bands. Wild-type and SHP2 knockout samples were subjected to SDS-PAGE. ab10555 and **ab8245** (loading control to GAPDH) were both diluted at 1 μg/mL and 1/10000 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 1/10000 dilution for 1 h at room temperature before imaging.

Western blot - Anti-SHP2 antibody (ab10555)

Jurkat cell lysates (lanes 1 and 2) were probed with ab10555 at 1/500. This antibody recognises SHP2 at 68 kDa. The lower molecular weight band may represent a variant or differences in the post-translational modification of the protein.

M: marker

lane 1: ab10555

lane 2: ab10555 + blocking peptide

M=Marker

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