abcam

Product datasheet

Anti-GRB10 antibody ab61771

画像数 2

製品の概要

製品名	Anti-GRB10 antibody
製品の詳細	Rabbit polyclonal to GRB10
由来種	Rabbit
特異性	ab61771 detects endogenous levels of total GRB 10 protein.
アプリケーション	**適用あり:** WB, IHC-P, ELISA
種交差性	**交差種:** Human
免疫原	Synthesized non-phosphopeptide derived from human GRB 10 around the phosphorylation site of tyrosine 67 (S-L-Y^P-S-A).
ポジティブ・コントロール	Human brain tissue; extracts from NIH/3T3 cells

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg^{2+} and Ca^{2+}), 150mM Sodium chloride, pH 7.4
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ab61771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		1/500 - 1/1000. Detects a band of approximately 67 kDa (predicted molecular weight: 67 kDa).
IHC-P		1/50 - 1/100.

アプリケーション	Abreviews	特記事項
ELISA		1/5000.

ターゲット情報

機能

Adapter protein which modulates coupling of a number of cell surface receptor kinases with specific signaling pathways. Binds to, and suppress signals from, activated receptors tyrosine kinases, including the insulin (INSR) and insulin-like growth factor (IGF1R) receptors. The inhibitory effect can be achieved by 2 mechanisms: interference with the signaling pathway and increased receptor degradation. Delays and reduces AKT1 phosphorylation in response to insulin stimulation. Blocks association between INSR and IRS1 and IRS2 and prevents insulin-stimulated IRS1 and IRS2 tyrosine phosphorylation. Recruits NEDD4 to IGF1R, leading to IGF1R ubiquitination, increased internalization and degradation by both the proteasomal and lysosomal pathways. May play a role in mediating insulin-stimulated ubiquitination of INSR, leading to proteasomal degradation. Negatively regulates Wnt signaling by interacting with LRP6 intracellular portion and interfering with the binding of AXIN1 to LRP6. Positive regulator of the KDR/VEGFR-2 signaling pathway. May inhibit NEDD4-mediated degradation of KDR/VEGFR-2.

組織特異性

Widely expressed in fetal and adult tissues, including fetal and postnatal liver, lung, kidney, skeletal muscle, heart, spleen, skin and brain.

配列類似性

Belongs to the GRB7/10/14 family.
Contains 1 PH domain.
Contains 1 Ras-associating domain.
Contains 1 SH2 domain.

ドメイン

The PH domain binds relatively non-specifically to several phosphoinositides, including PI(5)P, PI(4,5)P2, PI(3,4)P2 and PI(3,4,5)P3, with modest affinities.

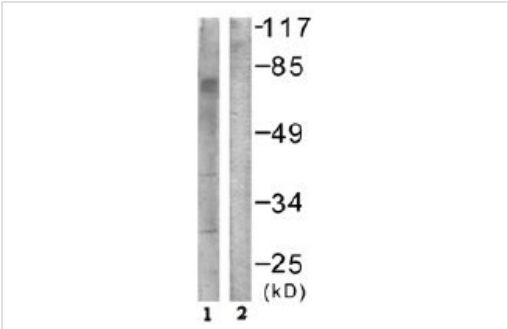
翻訳後修飾

phosphorylated on serine residues upon EGF, FGF and PDGF stimulation.

細胞内局在

Cytoplasm. When complexed with NEDD4 and IGF1R, follows IGF1R internalization, remaining associated with early endosomes. Uncouples from IGF1R-containing endosomes before the sorting of the receptor to the lysosomal compartment.

画像

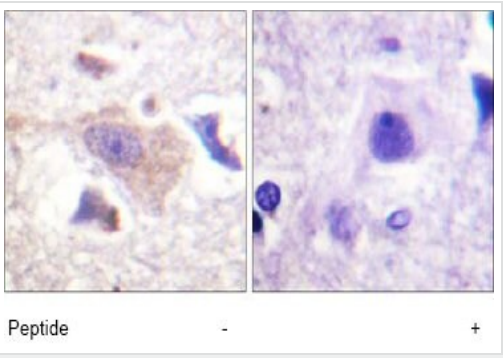


Western blot - Anti-GRB10 antibody (ab61771)

All lanes : Anti-GRB10 antibody (ab61771) at 1/500 dilution

Lane 1 : extracts from NIH/3T3 cells,
treated with Insulin (0.01U/ml, 15mins) with no peptide
Lane 2 : extracts from NIH/3T3 cells,
treated with Insulin (0.01U/ml, 15mins) with peptide

Predicted band size: 67 kDa
Observed band size: 30,40,67 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRB10 antibody (ab61771)

Immunohistochemistry analysis of paraffin-embedded human brain tissue using ab61771 at a dilution of 1/50. Left: sample untreated. Right: sample treated with immunising peptide.

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