

Product datasheet

Anti-PTP epsilon antibody ab84681

1 图像

概述

产品名称	Anti-PTP epsilon抗体
描述	兔多克隆抗体to PTP epsilon
宿主	Rabbit
经测试应用	适用于: WB
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Drosophila melanogaster, Zebrafish 
免疫原	Synthetic peptide corresponding to a region within internal amino acids 468-517 (VILSMKRGQE YTDYNASFI DGYRQKDYFI ATQGPLAHTV EDFWRMWEW) of Human PTP epsilon (NP_006495) Run BLAST with ExPASy Run BLAST with NCBI
阳性对照	293T cell lysate.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: None Constituents: 2% Sucrose, PBS
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab84681** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 81 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

靶标

功能

Isoform 1 plays a critical role in signaling transduction pathways and phosphoprotein network topology in red blood cells. May play a role in osteoclast formation and function.

Isoform 2 acts as a negative regulator of insulin receptor (IR) signaling in skeletal muscle. Regulates insulin-induced tyrosine phosphorylation of insulin receptor (IR) and insulin receptor substrate 1 (IRS-1), phosphorylation of protein kinase B and glycogen synthase kinase-3 and insulin induced stimulation of glucose uptake.

Isoform 1 and isoform 2 act as a negative regulator of FcεRI-mediated signal transduction leading to cytokine production and degranulation, most likely by acting at the level of SYK to affect downstream events such as phosphorylation of SLP76 and LAT and mobilization of Ca(2+).

组织特异性

Expressed in giant cell tumor (osteoclastoma rich in multinucleated osteoclastic cells).

序列相似性

Belongs to the protein-tyrosine phosphatase family. Receptor class 4 subfamily. Contains 2 tyrosine-protein phosphatase domains.

结构域

The tyrosine-protein phosphatase 2 domain (D2) mediates dimerization. The extreme N- and C-termini of the D2 domain act to inhibit dimerization and removal of these sequences increases dimerization and inhibits enzyme activity.

翻译后修饰

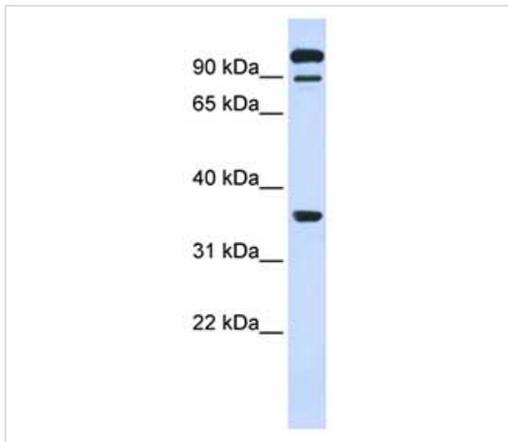
A catalytically active cytoplasmic form (p65) is produced by proteolytic cleavage of either isoform 1, isoform 2 or isoform 3.

Isoform 1 and isoform 2 are phosphorylated on tyrosine residues by tyrosine kinase Neu. Isoform 1 is glycosylated.

细胞定位

Cytoplasm; Cell membrane and Cytoplasm. Predominantly cytoplasmic. A small fraction is also associated with nucleus and membrane. Insulin induces translocation to the membrane.

图片



Western blot - Anti-PTP epsilon antibody (ab84681)

Anti-PTP epsilon antibody (ab84681) at 1 $\mu\text{g/ml}$ (in 5% skim milk / PBS buffer) + 293T cell lysate at 10 μg

Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 81 kDa

Observed band size: 88 kDa

Additional bands at: >90 kDa, 36 kDa. We are unsure as to the identity of these extra bands.

Gel concentration: 12%

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