abcam

Product datasheet

Recombinant Human PYK2 protein ab152380

1 图像

描述

产品名称	重组人PYK2蛋白
表达系统	Wheat germ
Accession	Q14289
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	VYQMEKDIAMEQERNARYRTPKILEPTAFQEPPPKPSRPKYR PPPQTNLL APKLQFQVPEGLCASSPTLTSPMEYPSPVNSLHTPPLHRHNV FKRHSMRE EDFIQPSSREEAQQLWEAEKVKMRQILDKQQKQMVEDYQWLR QEEKSLDP MVYMNDKSPLTPEKEVGYLEFTGPPQKPPRLGAQSIQPTA
预测分子量	47 kDa including tags
氨基酸	682 to 871

技术指标

Our **Abpromise guarantee** covers the use of **ab152380** in the following tested applications.

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

应用	Western blot
	ELISA
	SDS-PAGE
形式	Liquid
补充说明	

制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.

pH: 8.00
Constituents: 0.31% Glutathione, 0.79% Tris HCl

常规信息

功能

Involved in calcium induced regulation of ion channel and activation of the map kinase signaling pathway. May represent an important signaling intermediate between neuropeptide activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity. Interacts with the SH2 domain of Grb2. May phosphorylate the voltage-gated potassium channel protein Kv1.2. Its activation is highly correlated with the stimulation of c-Jun N-terminal kinase activity. Involved in osmotic stress-dependent SNCA 'Tyr-125' phosphorylation. In concert with SRC, plays an important role in osteoclastic bone resorption. Both the formation of a SRC-PTK2B complex, and SRC kinase activity are necessary for this function. The Tyr-402 phosphorylated form serves as a docking site for SRC and is important for the organization of the osteoclast actin cytoskeleton and attachment sites and for bone resorption.

组织特异性

Most abundant in the brain, with highest levels in amygdala and hippocampus. Low levels in kidney. Also expressed in spleen and lymphocytes.

序列相似性

Belongs to the protein kinase superfamily. Tyr protein kinase family. FAK subfamily.
Contains 1 FERM domain.
Contains 1 protein kinase domain.

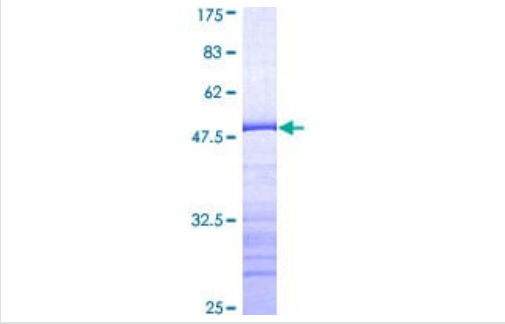
翻译后修饰

Phosphorylated on tyrosine residues in response to various stimuli that elevate the intracellular calcium concentration, as well as by PKC activation. Recruitment by nephrocystin to cell matrix adhesions initiates Tyr-402 phosphorylation. In monocytes, adherence to substrata is required for tyrosine phosphorylation and kinase activation. Angiotensin II, thapsigargin and L-alpha-lysophosphatidic acid (LPA) also induce autophosphorylation and increase kinase activity.

细胞定位

Cytoplasm. Cell membrane. Interaction with nephrocystin induces the membrane-association of the kinase.

图片



SDS-PAGE - Recombinant Human PYK2 protein (ab152380)

12.5% SDS-PAGE analysis of ab152380 stained with Coomassie Blue.

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