


Anti-PYK2 (phospho Y881) antibody ab4801

[1 References](#) [1 图像](#)

概述

产品名称	Anti-PYK2 (phospho Y881)抗体
描述	兔多克隆抗体to PYK2 (phospho Y881)
宿主	Rabbit
特异性	Some cross-reactivity with Focal Adhesion Kinase phosphorylated at tyrosine 925 (the corresponding Grb 2 binding site) may be observed in cases where Focal Adhesion Kinase is overexpressed relative to PYK 2 in the same cell system.
经测试应用	适用于: WB
种属反应性	与反应: Chicken 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide corresponding to Human PYK2 (phospho Y881).
阳性对照	WB: Chicken embryo fibroblasts plated on fibronectin
常规说明	<p>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.</p> <p>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</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.1% BSA
纯度	Immunogen affinity purified
纯化说明	Purified from rabbit serum by epitope-specific chromatography. The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated PYK 2. The final product is generated by affinity chromatography using a PYK 2-derived peptide that is phosphorylated at tyrosine 881.

克隆 多克隆
同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab4801于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		

应用说明

IHC-Fr: Use at an assay dependent dilution.

WB: 1/1000. Predicted molecular weight: 116 kDa. Can be blocked with **PYK 2 (phospho) antibody panel** or **CEF whole cell lysate, positive / negative for PYK 2 (pair)**.

Not tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

靶标

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.

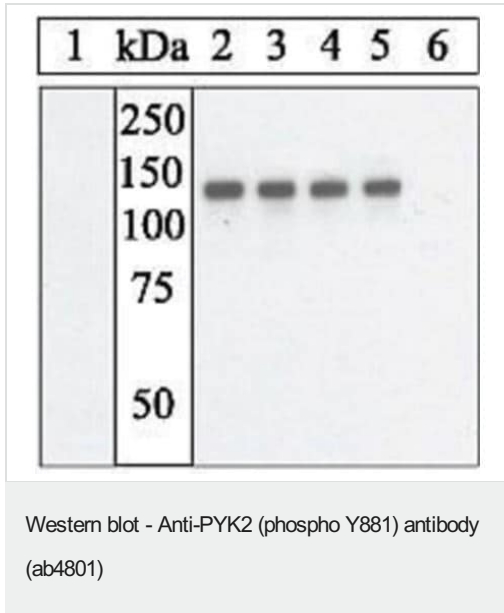
组织特异性 Most abundant in the brain, with highest levels in amygdala and hippocampus. Low levels in kidney. Also expressed in spleen and lymphocytes.

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



All lanes : Anti-PYK2 (phospho Y881) antibody (ab4801) at 1/1000 dilution

Lane 1 : Mock-transfected - Primary chicken embryo fibroblasts plated on fibronectin, pervanadate-treated

Lane 2 : Only expression vector transfected - Primary chicken embryo fibroblasts plated on fibronectin, pervanadate-treated

Lane 3 : Pyk2 (pY⁸⁸¹)NP expression vector transfected - Primary chicken embryo fibroblasts plated on fibronectin, pervanadate-treated

Lane 4 : FAK (pY⁹²⁵) expression vector transfected- Primary chicken embryo fibroblasts plated on fibronectin, pervanadate-treated

Lane 5 : Generic pY expression vector transfected - Primary chicken embryo fibroblasts plated on fibronectin, pervanadate-treated

Lane 6 : Pyk2 (pY⁸⁸¹)P - Primary chicken embryo fibroblasts plated on fibronectin, pervanadate-treated

Predicted band size: 116 kDa

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