

Anti-PYK2 antibody [E354] ab32448

敲除验证
RabMAb[®]

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概述

产品名称	Anti-PYK2抗体[E354]
描述	兔单克隆抗体[E354] to PYK2
宿主	Rabbit
特异性	The antibody does not cross-react with other Fak family members.
经测试应用	适用于: WB 不适用于: Flow Cyt, ICC/IF or IHC
种属反应性	与反应: Human 预测可用于: Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Jurkat whole cell lysate (ab7899).
常规说明	<p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
克隆	单克隆

克隆编号 E354

同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab32448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。

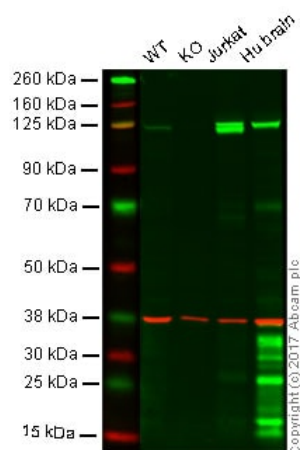
应用	Ab评论	说明
WB		1/500. Detects a band of approximately 116 kDa (predicted molecular weight: 116 kDa).

应用说明 Is unsuitable for Flow Cyt, ICC/IF or IHC.

靶标

功能	Involves 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



Western blot - Anti-PYK2 antibody [E354] (ab32448)

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

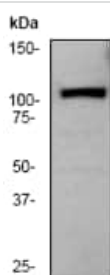
Lane 2: PYK2 knockout HAP1 whole cell lysate (20 µg)

Lane 3: Jurkat whole cell lysate (20 µg)

Lane 4: Hu brain whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab32448 observed at 125 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab32448 was shown to specifically react with PYK2 in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when PYK2 knockout samples were used. Wild-type and PYK2 knockout samples were subjected to SDS-PAGE. ab32448 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/500 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-PYK2 antibody [E354] (ab32448)

Anti-PYK2 antibody [E354] (ab32448) at 1/500 dilution + Jurkat cell lysate

Predicted band size: 116 kDa

Observed band size: 116 kDa

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