abcam

Product datasheet

Anti-PYK2 (phospho Y881) antibody ab4801

1 References 画像数 1

製品の概要

免疫原

製品名 Anti-PYK2 (phospho Y881) antibody

製品の詳細 Rabbit polyclonal to PYK2 (phospho Y881)

由来種 Rabbit

特異性 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.

アプリケーション **適用あり**: WB

種交差性 交差種: Chicken

交差が予測される動物種: Mouse, Rat 🔷

Synthetic peptide corresponding to Human PYK2 (phospho Y881).

ポジティブ・コントロール WB: Chicken embryo fibroblasts plated on fibronectin

特記事項 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.

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

製品の特性

製品の状態 Liquid

保存方法 Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

バッファー pH: 7.30

Preservative: 0.05% Sodium azide

Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.1% BSA

精製度 Immunogen affinity purified

特記事項(精製) 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.

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アイソタイプ

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アプリケーション

The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab4801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		

追加情報

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.

ターゲット情報

機能

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.

組織特異性

 $\label{thm:most_abundant} \mbox{ In the brain, with highest levels in amygdala and hippocampus. Low levels in}$

kidney. Also expressed in spleen and lymphocytes.

配列類似性

Belongs to the protein kinase superfamily. Tyr protein kinase family. FAK subfamily.

Contains 1 FERM domain.

Contains 1 protein kinase domain.

翻訳後修飾

細胞内局在

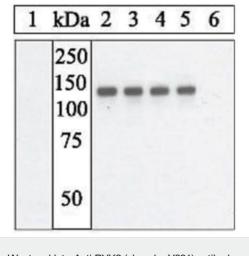
Phosphorylated on tyrosine residues in response to various stimuli that elevate the intracellular calcium concentration, as well as by PKC activation. Recruitment by nephrocystin to cell matrix adhesions initiates Tyr-402 phosphorylation. In monocytes, adherence to substrata is required for tyrosine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

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

lysophosphatidic acid (LPA) also induce autophosphorylation and increase kinase activity.

the kinase.

画像



Western blot - Anti-PYK2 (phospho Y881) antibody (ab4801)

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 (pY^881)NP expression vector transfected - Primary chicken embryo fibroblasts plated on fibronectin, pervanadate-treated

Lane 4: FAK (pY^925) 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 (pY^881)P - Primary chicken embryo fibroblasts plated on fibronectin, pervanadate-treated

Predicted band size: 116 kDa

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