

Product Name: PYK2 (phospho Tyr402) Rabbit Polyclonal Antibody

Catalog #: APRab05317

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

ApplicationIHC,ICC/IF,ELISAReactivityHuman,Mouse,RatConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000

Molecular Weight

Antigen Information

Gene Name PTK2B

PTK2B; FAK2; PYK2; RAFTK; Protein-tyrosine kinase 2-beta; Calcium-dependent tyrosine

Alternative Names kinase; CADTK; Calcium-regulated non-receptor proline-rich tyrosine kinase; Cell adhesion

kinase beta; CAK-beta; CAKB; Focal adhesion kinase 2; FADK 2; Pro

 Gene ID
 2185.0

 SwissProt ID
 Q14289

The antiserum was produced against synthesized peptide derived from human PYK2 around Immunogen

the phosphorylation site of Tyr402. AA range:369-418

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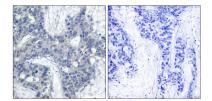
Background

This gene encodes a cytoplasmic protein tyrosine kinase which is involved in calcium-induced regulation of ion channels and activation of the map kinase signaling pathway. The encoded protein may represent an important signaling intermediate between neuropeptide-activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity. The encoded protein undergoes rapid tyrosine phosphorylation and activation in response to increases in the intracellular calcium concentration, nicotinic acetylcholine receptor activation, membrane depolarization, or protein kinase C activation. This protein has been shown to bind CRK-associated substrate, nephrocystin, GTPase regulator associated with FAK, and the SH2 domain of GRB2. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity tcatalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate, function: 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., PTM: 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, similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family., similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family. FAK subfamily, similarity: Contains 1 FERM domain, similarity: Contains 1 protein kinase domain, subcellular location: Interaction with nephrocystin induces the membrane-association of the kinase, subunit: Interacts with Crk-associated substrate (Cas), PTPNS1 and SH2D3C (By similarity). Interacts with nephrocystin, ASAP2, OPHN1L, SKAP2 and TGFB1I1., tissue specificity: Most abundant in the brain, with highest levels in amygdala and hippocampus. Low levels in kidney. Also expressed in spleen and lymphocytes.,

Research Area

Calcium; Chemokine; Natural killer cell mediated cytotoxicity; Leukocyte transendothelial migration; GnRH;

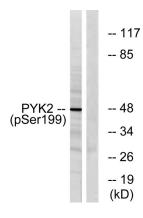
Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using PYK2 (Phospho-Tyr402) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of PYK2 (Phospho-Tyr402) Antibody. The lane on the right is blocked with the PYK2 (Phospho-Tyr402) peptide.