

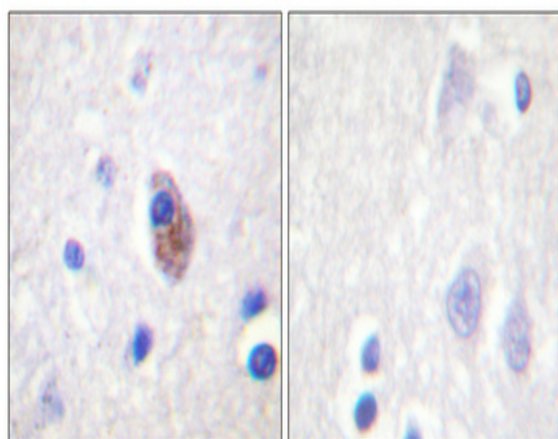
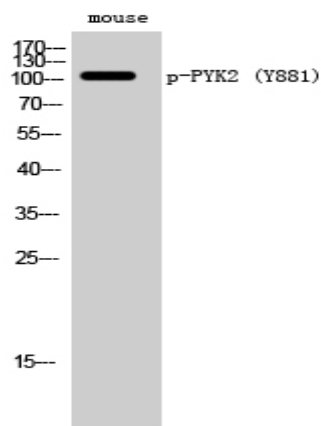
PYK2 (phospho Tyr881) Polyclonal Antibody

Catalog No :	YP0609
Reactivity :	Human,Mouse,Rat
Applications :	WB,IHC-p,ELISA
Gene Name :	PTK2B
Protein Name :	Protein-tyrosine kinase 2-beta
Human Gene Id :	2185
Human Swiss Prot No :	Q14289
Mouse Gene Id :	19229
Mouse Swiss Prot No :	Q9QVP9
Rat Gene Id :	50646
Rat Swiss Prot No :	P70600
Immunogen :	The antiserum was produced against synthesized peptide derived from human PYK2 around the phosphorylation site of Tyr881. AA range:847-896
Specificity :	Phospho-PYK2 (Y881) Polyclonal Antibody detects endogenous levels of PYK2 protein only when phosphorylated at Y881.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Rabbit
Dilution :	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

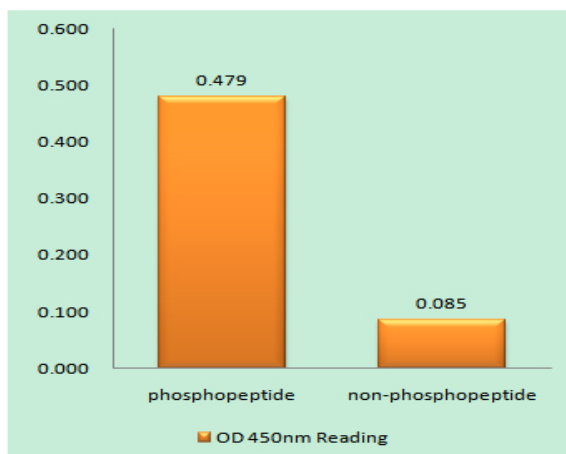
Concentration :	1 mg/ml
Storage Stability :	-20°C/1 year
Molecularweight :	115875
Observed Band :	116
Cell Pathway :	Calcium,Chemokine,Natural killer cell mediated cytotoxicity,Leukocyte transendothelial migration,GnRH,
Background :	protein tyrosine kinase 2 beta(PTK2B) Homo sapiens This gene encodes 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 t
Function :	catalytic 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
Subcellular Location :	nucleus,nucleoplasm,cytoplasm,cytosol,cytoskeleton,focal adhesion,cell cortex,postsynaptic density,NMDA selective glutamate receptor complex,lamellipodium,axon,dendrite,growth cone,extrinsic compone
Expression :	Brain,Hippocampus,Lymph,Monocyte,Platelet,Testis,

Products Images

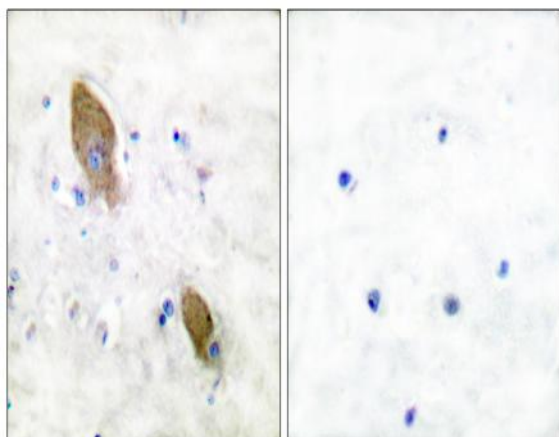
Western Blot analysis of mouse cells using Phospho-PYK2 (Y881) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°, overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PYK2 (Phospho-Tyr881) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using PYK2 (Phospho-Tyr881) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from mouse brain, using PYK2 (Phospho-Tyr881) Antibody. The lane on the right is blocked with the phospho peptide.