Product Datasheet

PYK2 (Phospho-Tyr579) Antibody

Catalog No: #11776

Package Size: #11776-1 50ul #11776-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

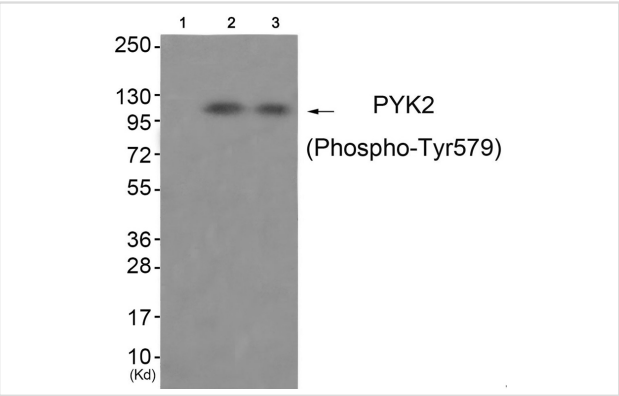
Product Name	PYK2 (Phospho-Tyr579) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of PYK2 only when phosphorylated at tyrosine 579.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 579(E-D-Y(p)-Y-K) derived from Human PYK2.
Target Name	PYK2
Modification	Phospho
Other Names	CADTK; FADK 2; FAK2; PTK2B; RAFTK
Accession No.	Swiss-Prot#: Q14289; NCBI Gene#: 2185; NCBI Protein#: NP_004094.3.
Uniprot	Q14289
GeneID	2185;
SDS-PAGE MW	116kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

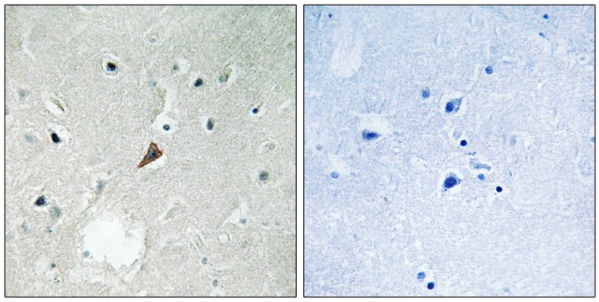
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from 3T3 cells (Lane 2) and HepG2 cells (Lane 3), using PYK2 (Phospho-Tyr579) Antibody #11776. The lane on the left is treated with antigen-specific peptide.



Immunohistochemical analysis of paraffin-embedded human brain tissue using PYK2 (Phospho-Tyr579) antibody #11776 (left)or the same antibody preincubated with blocking peptide (right).

Background

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.

Lev S., Nature 376:737-745(1995).
Herzog H., Genomics 32:484-486(1996).
Sasaki H., J. Biol. Chem. 270:21206-21219(1995).

Note: This product is for in vitro research use only