Data Sheet (Cat.No.TMAC-03475)

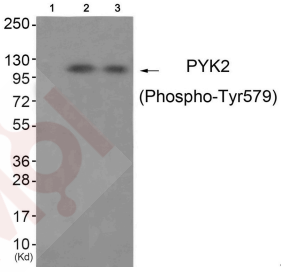
Anti-Phospho-PYK2 (Tyr579) Polyclonal Antibody

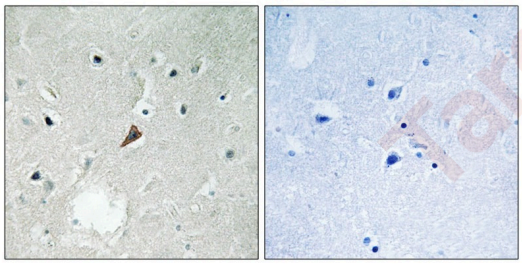
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Actual: 116 kDa.
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

Verified Activity:	1. Western blot analysis of extracts from 3T3 cells (Lane 2) and HepG2 cells (Lane 3), using PYK2 (Phospho-Tyr579) Antibody TMAC-03475. The lane on the left is treated with antigen-specific peptide. 2. Immunohistochemical analysis of paraffin-embedded human brain tissue using PYK2 (Phospho-Tyr579) antibody TMAC-03475 (left) or the same antibody preincubated with blocking peptide (right).





Application:	IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of tyrosine 579(E-D-Y(p)-Y-K) derived from Human PYK2
Antigen Species:	Human
Uniprot ID:	Q14289
Synonyms:	PYK2 (p-Tyr579);p-PYK2 (Tyr579);p-PYK2 (Y579);PYK2 (p-Y579)

Research 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.