

## Product datasheet for **TA333081**

### **PYK2 (PTK2B) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ICC/IF, WB
<b>Recommended Dilution:</b>	WB 1:500-1:2000;IF 1:100-1:200
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Modifications:</b>	Phospho-specific
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	A phospho specific peptide corresponding to residues surrounding Y402 of human PTK2B
<b>Formulation:</b>	Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity purification
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	3030
<b>Gene Name:</b>	protein tyrosine kinase 2 beta
<b>Database Link:</b>	<a href="#">NP_004094</a> <a href="#">Entrez Gene 19229 Mouse</a> <a href="#">Entrez Gene 50646 Rat</a> <a href="#">Entrez Gene 2185 Human</a> <a href="#">Q14289</a>



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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 to kinases from other subfamilies. Four transcript variants encoding two different isoforms have been found for this gene.

**Synonyms:**

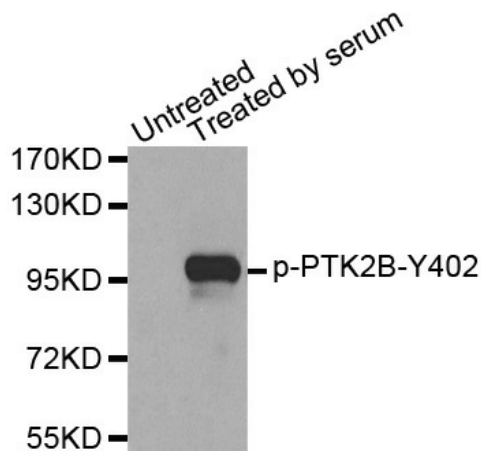
CADTK; CAKB; FADK2; FAK2; PKB; PTK; PYK2; RAFTK

**Protein Families:**

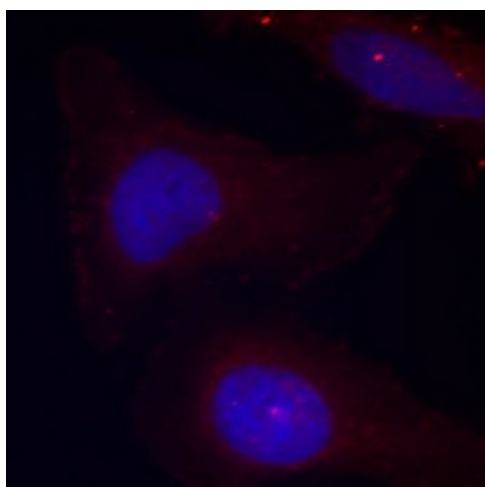
Druggable Genome, Protein Kinase

**Protein Pathways:**

Calcium signaling pathway, Chemokine signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity

**Product images:**

Western blot analysis of extracts from 293 cells, using Phospho-PTK2B-Y402 antibody.



Immunofluorescence staining of methanol-fixed HeLa cells using Phospho-PTK2B-Y402 antibody.