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Product datasheet for TA385100M

PYK2 (PTK2B) Mouse Monoclonal Antibody [Clone ID: 4B4-D0-F3]

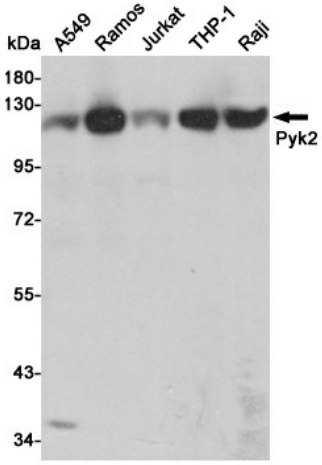
Product data:

Product Type:	Primary Antibodies
Clone Name:	4B4-D0-F3
Applications:	IHC, WB
Recommended Dilution:	WB: 1/500-1/2000 IHC: 1/200-1/1000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of PYK2 (aa815-997) expressed in E. Coli.
Formulation:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.03% Proclin 300, pH 7.3.
Concentration:	lot specific
Purification:	Ascitic Fluid
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	115.8kDa
Gene Name:	protein tyrosine kinase 2 beta
Database Link:	Entrez Gene 2185 Human Q14289

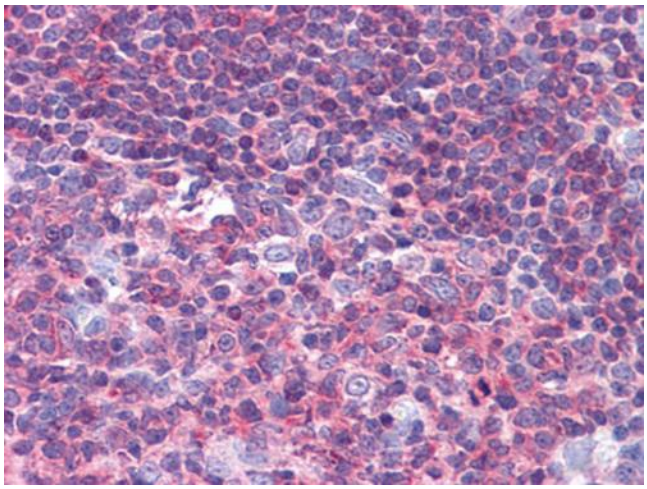
Background: Swiss-Prot Acc.Q14289.PYK2: PTK2B protein tyrosine kinase 2 beta, also known as PTK2B, PKB, PTK, CAKB, FAK2, FRNK. Entrez Protein NP_004094. It is a cytoplasmic protein tyrosine kinase which is involved in calcium-induced regulation of ion channels and activation of the map kinase signaling 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

Product images:



Western blot detection of Pyk2 in A549,Ramos,Jurkat,THP-1 and Raji cell lysates using Pyk2 mouse mAb (1:1000 diluted).Predicted band size:116KDa.Observed band size:116KDa.



Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using PYK2 mouse mAb.