



## PYK2 Mouse Monoclonal Antibody

E10-20212

**Background:** 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.

**Catalog Number:** E10-20212

**Amount:** 100 $\mu$ g/100 $\mu$ l

**Clone Number:** 5E2D5

**Species:** Mouse IgG2a

**MW:** 115.8kDa

**Aliases:** PKB; PTK; CAKB; FAK2; FRNK; PTK2B

**Entrez Gene:** 2185

**Immunogen:** Purified recombinant fragment of PYK2 (aa815-997) expressed in E. Coli.

**Storage:** Store at 4 $^{\circ}$ C for long term storage, store at

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human

**Tested Applications:** WB, IHC, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

**Application notes:** WB.1/500 - 1/2000.IHC. 1/200 - 1/1000.ELISA. Propose dilution 1/10000.

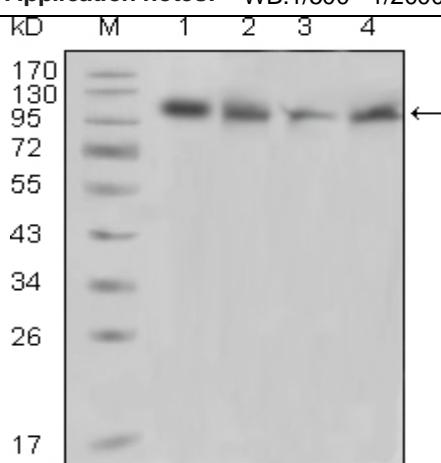


Figure 1. Western blot analysis using PYK2 mouse mAb against Raji (1), PMA induced THP-1 (2), Jurkat (3) and Ramos (4) cell lysate.

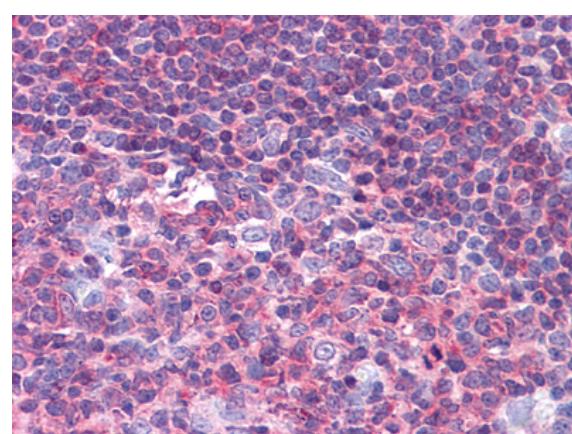


Figure 2. Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using PYK2 mouse mAb.