

Product datasheet for **AM06233SU-N**

PYK2 (PTK2B) Mouse Monoclonal Antibody [Clone ID: 5E2D5]

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 5E2D5 |
| Applications: | ELISA, IHC, WB |
| Recommended Dilution: | ELISA: 1/10000. Western Blot: 1/500 - 1/2000. Immunohistochemistry on Paraffin Sections: 1/200 - 1/1000. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Purified recombinant fragment of PYK2 (aa815-997) expressed in E. Coli. |
| Specificity: | Recognizes Focal Adhesion Kinase 2 (PTK2B). |
| Formulation: | State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide. |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 115.8 kDa |
| Gene Name: | protein tyrosine kinase 2 beta |
| Database Link: | Entrez Gene 2185 Human Q14289 |



[View online »](#)

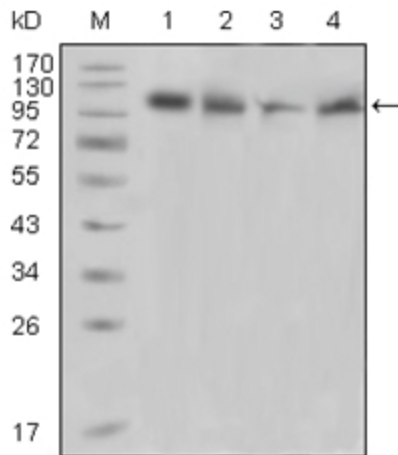
Background:

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.

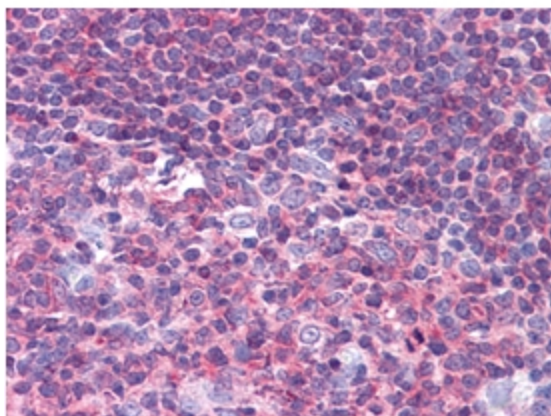
Synonyms:

PYK2, RAFTK, Protein tyrosine kinase 2 beta, Focal adhesion kinase 2, CAK-beta, CADTK

Product images:



Western blot analysis using PYK2 antibody Cat.-No AM06233SU-N against Raji (Lane 1), PMA induced THP-1 (Lane 2), Jurkat (Lane 3) and Ramos (Lane 4) cell lysate.



Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using PYK2 antibody Cat.-No AM06233SU-N