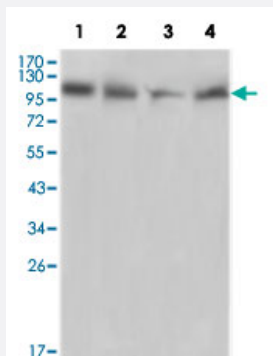


PTK2B monoclonal antibody, clone 5E2D5

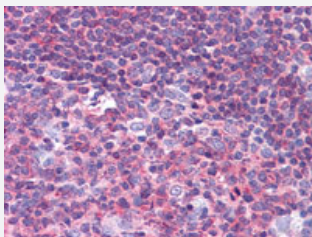
Catalog # MAB10359 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis using PTK2B monoclonal antibody, clone 5E2D5 (Cat # MAB10359) against Raji (1), PMA induced THP-1 (2), Jurkat (3) and Ramos (4) cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue using PTK2B monoclonal antibody, clone 5E2D5 (Cat # MAB10359) with DAB staining.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant PTK2B.
Immunogen	Recombinant protein corresponding to amino acids 815-997 of human PTK2B.
Host	Mouse
Theoretical MW (kDa)	115.8
Reactivity	Human
Form	Liquid

Isotype	IgG2a
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis using PTK2B monoclonal antibody, clone 5E2D5 (Cat # MAB10359) against Raji (1), PMA induced THP-1 (2), Jurkat (3) and Ramos (4) cell lysate.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PTK2B

Entrez GeneID	2185
Gene Name	PTK2B
Gene Alias	CADTK, CAKB, FADK2, FAK2, FRNK, PKB, PTK, PYK2, RAFTK
Gene Description	PTK2B protein tyrosine kinase 2 beta
Omim ID	601212
Gene Ontology	Hyperlink

Gene Summary

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. [provided by RefSeq]

Other Designations

CAK beta|OTTHUMP00000128275|OTTHUMP00000162913|calcium-dependent tyrosine kinase|cell adhesion kinase beta|focal adhesion kinase 2|proline-rich tyrosine kinase 2|protein kinase B|protein tyrosine kinase 2 beta|related adhesion focal tyrosine kinase

Pathway

- [Calcium signaling pathway](#)
- [Chemokine signaling pathway](#)
- [GnRH signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Natural killer cell mediated cytotoxicity](#)

Disease

- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)

- [Melanoma](#)
- [Skin Neoplasms](#)
- [Tobacco Use Disorder](#)