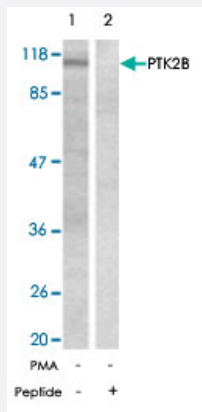


PTK2B polyclonal antibody

Catalog # PAB5540

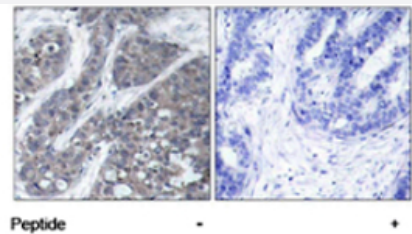
Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of the extracts from Jurkat cells untreated or treated with PMA using PTK2B polyclonal antibody (Cat # PAB5540) .



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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PTK2B polyclonal antibody (Cat # PAB5540) .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PTK2B.
Immunogen	A synthetic peptide corresponding to residues surrounding Y402 of human PTK2B.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	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 of the extracts from Jurkat cells untreated or treated with PMA using PTK2B polyclonal antibody (Cat # PAB5540).

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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PTK2B polyclonal antibody (Cat # PAB5540).

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

Publication Reference

- [Focal adhesion kinase is critical for entry of Kaposi's sarcoma-associated herpesvirus into target cells.](#)

Krishnan HH, Sharma-Walia N, Streblow DN, Naranatt PP, Chandran B.

Journal of Virology 2006 Feb; 80(3):1167.

Application: WB-Ce, Human, Du3, Du17 cells

- [Acid sensing in renal epithelial cells.](#)

Gluck SL.

The Journal of Clinical Investigation 2004 Dec; 114(12):1696.

Application: WB, Human, Mammalian cells

- [Nir2, a novel regulator of cell morphogenesis.](#)

Tian D, Litvak V, Toledo-Rodriguez M, Carmon S, Lev S.

Molecular and Cellular Biology 2002 Apr; 22(8):2650.

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](#)