

Datasheet for ABIN7269745
anti-PTK2B antibody (AA 1-100)

2 Images

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Overview

Quantity:	100 µL
Target:	PTK2B
Binding Specificity:	AA 1-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTK2B antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	PTK2B Rabbit pAb
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human PTK2B (NP_004094.3).
Sequence:	MSGVSEPLSR VKLGLRRPE GPAEPMVVVP VDVEKEDVRI LKVCFYNSNF NPGKNFKLVK CTVQTEIREI ITSILLSGRI GPNIRLAECY GLRLKHKMSD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PTK2B
Alternative Name:	PTK2B (PTK2B Products)
Background:	<p>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</p> <p>gene.,PTK2B,CADTK,CAKB,FADK2,FAK2,PKB,PTK,PYK2,RAFTK,Pyk2,Cancer,Signal Transduction,G protein signaling,G2/M DNA Damage Checkpoint,Kinase,Tyrosine kinases,MAPK-Erk Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Endocrine & Metabolism,Immunology & Inflammation,B Cell Receptor Signaling Pathway,PTK2B</p>
Molecular Weight:	111kDa/115kDa
Gene ID:	2185
UniProt:	Q14289
Pathways:	EGFR Signaling Pathway , Regulation of Actin Filament Polymerization , Carbohydrate Homeostasis , Glycosaminoglycan Metabolic Process , Cellular Glucan Metabolic Process , Cell-Cell Junction Organization , Regulation of Cell Size , Regulation of Carbohydrate Metabolic Process , Hepatitis C , Protein targeting to Nucleus , CXCR4-mediated Signaling Events , Signaling Events mediated by VEGFR1 and VEGFR2 , Signaling of Hepatocyte Growth Factor Receptor , Positive Regulation of fat Cell Differentiation , VEGF Signaling

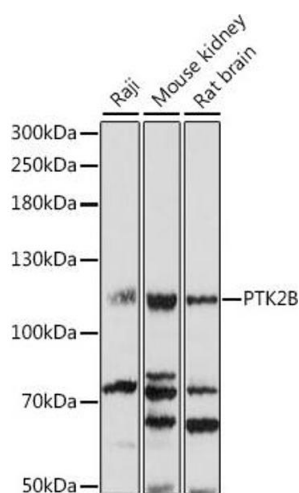
Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

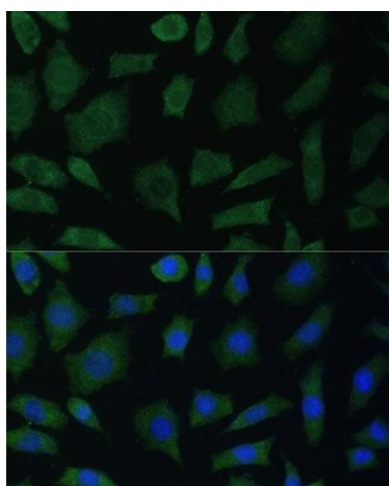
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using PTK2B antibody (ABIN7269745) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Immunofluorescence

Image 2. Immunofluorescence analysis of L929 cells using PTK2B antibody (ABIN7269745) at dilution of 1:100. Blue: DAPI for nuclear staining.