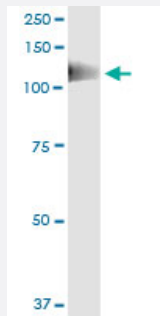


# PTK2B (Human) IP-WB Antibody Pair

Catalog # H00002185-PW1

Size 1 Set

## Applications



Immunoprecipitation of PTK2B transfected lysate using mouse monoclonal anti-PTK2B and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with rabbit polyclonal anti-PTK2B.

## Specification

<b>Product Description</b>	This IP-WB antibody pair set comes with one antibody for immunoprecipitation and another to detect the precipitated protein in western blot.
<b>Reactivity</b>	Human
<b>Quality Control Testing</b>	Immunoprecipitation-Western Blot (IP-WB) Immunoprecipitation of PTK2B transfected lysate using mouse monoclonal anti-PTK2B and Protein A Magnetic Bead ( <a href="#">U0007</a> ), and immunoblotted with rabbit polyclonal anti-PTK2B.
<b>Supplied Product</b>	Antibody pair set content: 1. Antibody pair for IP: mouse monoclonal anti-PTK2B (300 ug) 2. Antibody pair for WB: rabbit polyclonal anti-PTK2B (50 ul)
<b>Storage Instruction</b>	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

## Applications

- Immunoprecipitation-Western Blot

[Protocol Download](#)

## 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](#)