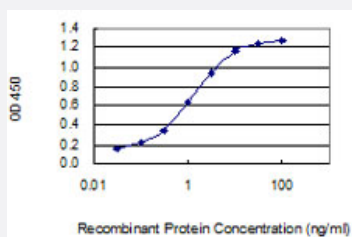


PTK2B monoclonal antibody (M04), clone 3G14

Catalog # H00002185-M04

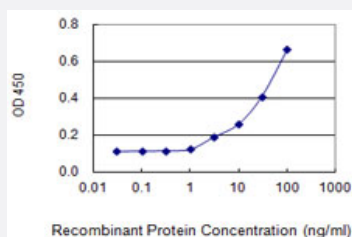
Size 50 ug

Applications



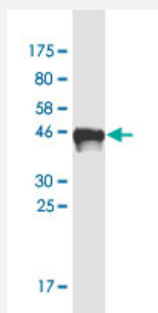
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PTK2B is 0.03 ng/ml as a capture antibody.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PTK2B is 1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (46.53 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant PTK2B.

Immunogen	PTK2B (AAH36651, 682 a.a. ~ 871 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VYQMEKDIAMEQERNARYRTPKILEPTAFQEPPPKPSRPKYRPPPQTNLLAPKLQFQVPEGLCAS SPTLTSPMEYPSVNSLHTPPLHRHNVFKRHSMREEDFIQPSSREEAQQLWEAEKVKMRQLDK QQKQMVEDYQWLRQEEKSLDPMVYMNDKSPLTPEKEVGYLEFTGPPQKPPRLGAQSIQPTA
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (46.53 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PTK2B is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PTK2B is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — PTK2B

Entrez GeneID [2185](#)

GeneBank Accession# [BC036651](#)

Protein Accession#	AAH36651
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	<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 gene. [provided by RefSeq]</p>
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](#)