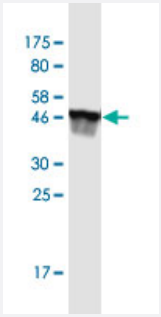
PTK2B monoclonal antibody (M04A), clone 3G14

Catalog # H00002185-M04A Size 200 uL

Applications



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 SPTLTSPMEYPSPVNSLHTPPLHRHNVFKRHSMREEDFIQPSSREEAQQLWEAEKVKMRQILDK 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 ascites fluid
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  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	This gene encodes a cytoplasmic protein tyrosine kinase which is involved in calcium-induced reg ulation 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 act ivity. The encoded protein undergoes rapid tyrosine phosphorylation and activation in response to increases in the intracellular calcium concentration, nicotinic acetylcholine receptor activation, me mbrane 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 l acks significant sequence similarity to kinases from other subfamilies. Four transcript variants en coding 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