

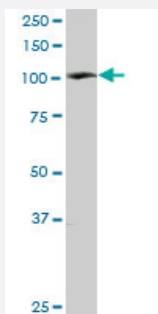
MaxPab®

PTK2B purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00002185-D01P

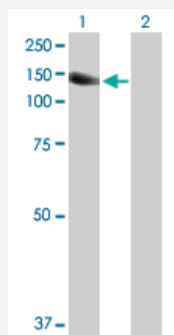
Size 100 ug

Applications



Western Blot (Tissue lysate)

PTK2B MaxPab rabbit polyclonal antibody. Western Blot analysis of PTK2B expression in rat brain.

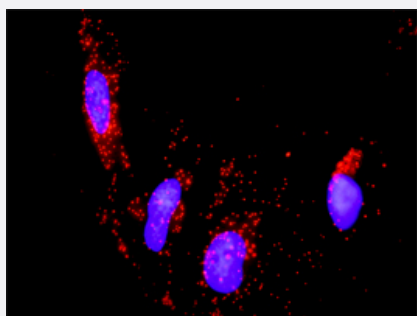


Western Blot (Transfected lysate)

Western Blot analysis of PTK2B expression in transfected 293T cell line ([H00002185-T01](#)) by PTK2B MaxPab polyclonal antibody.

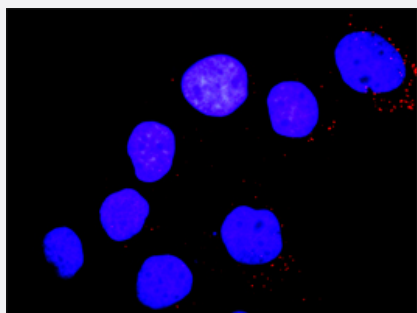
Lane 1: PTK2B transfected lysate(115.90 KDa).

Lane 2: Non-transfected lysate.



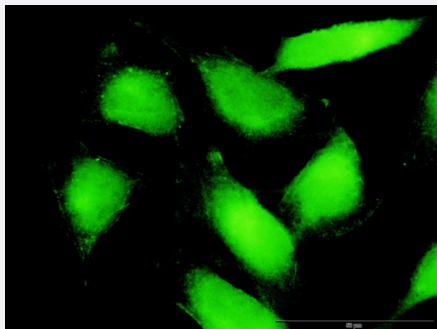
In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PTK2B and ERBB2. HeLa cells were stained with anti-PTK2B rabbit purified polyclonal 1:1200 and anti-ERBB2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PTK2B and YES1. Huh7 cells were stained with anti-PTK2B rabbit purified polyclonal 1:1200 and anti-YES1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Immunofluorescence

Immunofluorescence of purified MaxPab antibody to PTK2B on HeLa cell.
[antibody concentration 30 ug/ml]

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human PTK2B protein.
Immunogen	PTK2B (AAH36651.1, 1 a.a. ~ 1009 a.a) full-length human protein.
Sequence	MSGVSEPLSRVKLGTLRRPEGPAEPMVVVPDVEKEDVRILKVCFYNSFNPgKNFKLVKCTVQ TEIREIITSILLSGRIGPNIRLAECYGLRLKHKMSDEIHWLHPQMTVGEVQDKYECLHVEAEWRYDLQI RYLPEDFMESLKEDRTLLYFYQQLRNDYMQRYSKQVSEGMALQLGCLELRRFFKDMPHNALDK KSNFELLEKEVGLDLFFPKQMENLKPQFRKMIQQTFFQYASLREEECVMKFFNTLAGFANIDQ ETRCELIQGWNITVDLVIGPKGIRQLTSQDAKPTCLAEFKQIRSIKPLLEEGQAVLQLGIEGAPQA LSIKTSSSLAEAEENMADLIDGYCRLQGEHQGSLIHPKRDGEKRNLSLPQIPMLNLEARRSHLSESCSI ESDIYAEIPDETLRRPGGPQYGIAREDEVVLNRILGEGFFGEVYEGVYTNHKGEKINVAVKTCCKDCT LDNKEKFMSEAVIMKNLDHPHIVKLIGIIEEPTWIIMELYPYELGHYLERNKNSLKVLTLVLYSLQIC KAMAYLESINCVHRDIAVRNILVASPECVKLGDFGLSRYIEDEDYKASVTRLPIKWMSPESINFRR FTTASDVWMFAVCMWEILSFGKQPFWFLENKDVGIVLEKGDRLPKPDLCPVLYTLMTRCWDYD PSDRPRFTLVCSLSDVYQMEKDIAEQERNARYRTPKILEPTAFQEPPPKPSRPKYRPPQTNL LAPKLQFQVPEGLCASSPTLTSPMEYPSVNSLHTPLHRHNVFKRHSREEDFIQSSSREEAQ QLWEAEKVKMRQILDKQKQMVEDYQWLRQEEKSLDPMVYMNDKSPLTPEKEVGYLEFTGPPQ KPPRLGAQSIQPTANLDRDLDVYLVNVMELVRVLELKNELCQLPPEGVYVVVKNVGLTLRKLIGS VDDLLPSLPSSSRTEIEGTQKLLNKDLAELINKMRLAQQNAVTSLSSEECKRQMLTASHTLAMDAK NLLDAVDQAKVLANLAHPPAE
Host	Rabbit
Reactivity	Human, Rat
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
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 (Tissue lysate)

PTK2B MaxPab rabbit polyclonal antibody. Western Blot analysis of PTK2B expression in rat brain.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of PTK2B expression in transfected 293T cell line ([H00002185-T01](#)) by PTK2B MaxPab polyclonal antibody.

Lane 1: PTK2B transfected lysate(115.90 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PTK2B and ERBB2. HeLa cells were stained with anti-PTK2B rabbit purified polyclonal 1:1200 and anti-ERBB2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PTK2B and YES1. Huh7 cells were stained with anti-PTK2B rabbit purified polyclonal 1:1200 and anti-YES1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- Immunofluorescence

Immunofluorescence of purified MaxPab antibody to PTK2B on HeLa cell. [antibody concentration 30 ug/ml]

Gene Info — PTK2B

Entrez GeneID [2185](#)

GeneBank Accession# [BC036651.2](#)

Protein Accession# [AAH36651.1](#)

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](#)