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# PTK2B Protein (Transcript Variant 2) (Myc-DYKDDDDK Tag)



**Image** 



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Overview	
Quantity:	20 μg
Target:	PTK2B
Protein Characteristics:	Transcript Variant 2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTK2B protein is labelled with Myc-DYKDDDDK Tag.

Antibody Production (AbP), Standard (STD)

· Produced with end-sequenced ORF clone

#### **Product Details**

Characteristics:

Application:

Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Target Details	
Target:	PTK2B
Alternative Name:	Fak2,ptk2b (PTK2B Products)
Background:	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

• Recombinant human FAK2 / PTK2B (transcript variant 2) protein expressed in HEK293 cells.

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.

Molecular Weight: 115.7 kDa

NCBI Accession: NP\_004094

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: Recombinant human proteins can be used for:

Native antigens for optimized antibody production

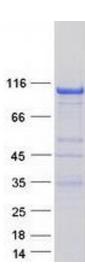
Positive controls in ELISA and other antibody assays

Comment: The tag is located at the C-terminal.

Restrictions: For Research Use only

#### Handling

Concentration:	50 μg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



## **Western Blotting**

Image 1. Validation with Western Blot