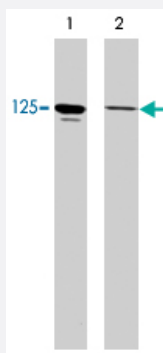


PTK2 (phospho Y397) monoclonal antibody, clone M121

Catalog # MAB1370

Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of HUVECs untreated (lane 1) or treated with alkaline phosphatase (lane 2). Blots were probed with PTK2 (phospho Y397) monoclonal antibody, clone M121 (Cat # MAB1370).

Specification

Product Description	Mouse monoclonal antibody raised against synthetic phosphopeptide of PTK2.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y397 of human PTK2.
Host	Mouse
Reactivity	Human, Mouse, Rabbit, Rat
Specificity	This peptide sequence has high homology to the conserved tyrosine site in rat and mouse FAK.
Form	Liquid
Isotype	IgG1
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1 mg/mL BSA, 0.05% sodium azide)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of HUVECs untreated (lane 1) or treated with alkaline phosphatase (lane 2). Blots were probed with PTK2 (phospho Y397) monoclonal antibody, clone M121 (Cat # MAB1370).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PTK2

Entrez GeneID[5747](#)**Gene Name**

PTK2

Gene Alias

FADK, FAK, FAK1, pp125FAK

Gene Description

PTK2 protein tyrosine kinase 2

Omim ID[600758](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. At least four transcript variants encoding four different isoforms have been found for this gene, but the full-length nature of only two of them have been determined. [provided by RefSeq]

Other Designations

focal adhesion kinase 1

Publication Reference

- [Focal adhesion kinase: a regulator of focal adhesion dynamics and cell movement.](#)

Parsons JT, Martin KH, Slack JK, Taylor JM, Weed SA.

Oncogene 2000 Nov; 19(49):5606.

- [Integrin-mediated signal transduction linked to Ras pathway by GRB2 binding to focal adhesion kinase.](#)

Schlaepfer DD, Hanks SK, Hunter T, van der Geer P.

Nature 1994 Dec; 372(6508):786.

Application: WB-Ce, Mouse, NIH/3T3 cells

- [Autophosphorylation of the focal adhesion kinase, pp125FAK, directs SH2-dependent binding of pp60src.](#)

Schaller MD, Hildebrand JD, Shannon JD, Fox JW, Vines RR, Parsons JT.

Molecular and Cellular Biology 1994 Mar; 14(3):1680.

Application: IP, WB-Tr, Chicken, CE cells

Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Small cell lung cancer](#)
- [VEGF signaling pathway](#)

Disease

- [Autistic Disorder](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)

- [Leukemia](#)
- [Mental Retardation](#)
- [Neovascularization](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)