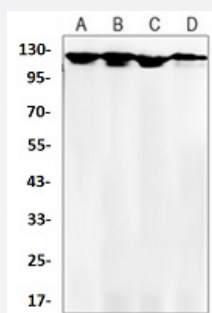


RecomAb™

# PTK2 recombinant monoclonal antibody

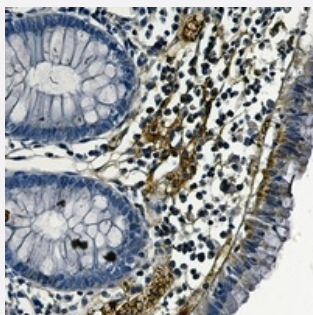
Catalog # RAB02495      Size 100 uL

## Applications



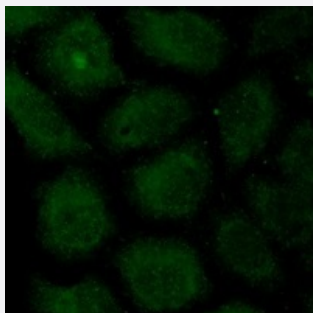
### Western Blot (Cell lysate)

Western blot analysis of K562 (A), C6 (B), NIH3T3 (C), HeLa (D) whole cell lysates with Focal Adhesion Kinase recombinant monoclonal antibody (Cat # RAB02495).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human colon cancer formalin fixed paraffin embedded tissue section using Focal Adhesion Kinase recombinant monoclonal antibody (Cat # RAB02495). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.56). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



### Immunofluorescence

Immunofluorescent analysis of A549 cells with Focal Adhesion Kinase recombinant monoclonal antibody (Cat # RAB02495). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against human PTK2.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	Original antibody is raised against a synthetic peptide of human FAK.
<b>Theoretical MW (kDa)</b>	125
<b>Reactivity</b>	Human, Mouse, Rat
<b>Specificity</b>	Recognizes endogenous levels of Focal Adhesion Kinase protein.
<b>Form</b>	Liquid
<b>Purification</b>	Immunogen affinity chromatography
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunohistochemistry (1:50-1:100) Immunoprecipitation (1:10-1:50) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
<b>Storage Instruction</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
<b>Note</b>	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 K562 (A), C6 (B), NIH3T3 (C), Hela (D) whole cell lysates with Focal Adhesion Kinase recombinant monoclonal antibody (Cat # RAB02495).

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- Immunocytochemistry
- Immunofluorescence

Immunofluorescent analysis of A549 cells with Focal Adhesion Kinase recombinant monoclonal antibody (Cat # RAB02495). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

- Immunoprecipitation

## Gene Info — PTK2

Entrez GeneID [5747](#)

Protein Accession# [Q05397](#)

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

## 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](#)