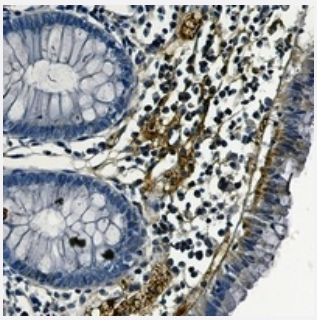
RecomAb™ Sm Size

PTK2 recombinant monoclonal antibody

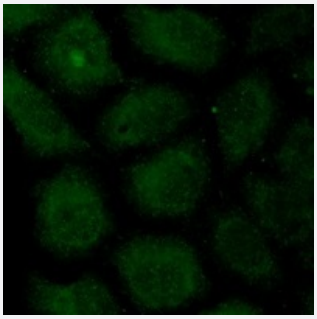
Catalog # RAB09164 Size 50 uL

Applications



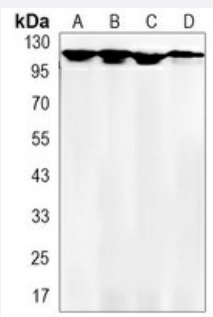
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human colon cancer formalin fixed paraffin embedded tissue section using Focal Adhesion Kinase recombinant monoclonal antibody (Cat # RAB09164). 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 # RAB09164). 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 hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.



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 # RAB09164).

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Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PTK2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human FAK.
Theoretical MW (kDa)	125
Reactivity	Human, Mouse, Rat
Specificity	Recognizes endogenous levels of Focal Adhesion Kinase protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	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.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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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. Th e encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks signific ant sequence similarity to kinases from other subfamilies. Activation of this gene may be an impor tant early step in cell growth and intracellular signal transduction pathways triggered in response t o 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 natures 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

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- 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

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