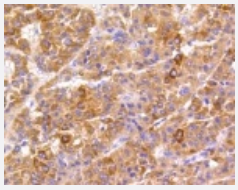
RecomAb™

# PTK2 recombinant monoclonal antibody

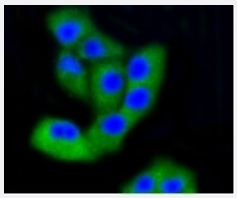
Catalog # RAB02694 Size 100 uL

## Applications



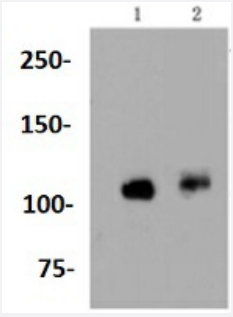
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using PTK2 recombinant monoclonal antibody (Cat # RAB02694). Counter stained with hematoxylin.



### Immunocytochemistry

Immunocytochemical staining of PANC-1 cells using PTK2 recombinant monoclonal antibody (Cat # RAB02694)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.




### Western Blot

Western blot analysis of Lane1:Hela whole cell lysate Lane2:The spleen tissue lysate of Mouse with PTK2 recombinant monoclonal antibody (Cat # RAB02694) at 1:1000 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against PTK2. |

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| | |
|---|---|
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant PTK2. |
| **Theoretical MW (kDa)** | 125 |
| **Reactivity** | Human, Mouse, Rat |
| **Specificity** | This antibody detects endogenous levels of FAK and does not cross-react with related proteins. |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Flow Cytometry (1:50-1:100)<br>Immunocytochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (1:50-1:200)<br>Western Blot (1:1000-1:2000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.2 (50% glycerol and 0.02% sodium azide) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

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

  Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using PTK2 recombinant monoclonal antibody (Cat # RAB02694). Counter stained with hematoxylin.

- Immunofluorescence

- Immunocytochemistry

  Immunocytochemical staining of PANC-1 cells using PTK2 recombinant monoclonal antibody (Cat # RAB02694)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

- Flow Cytometry

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- Western Blot

  Western blot analysis of Lane1:Hela whole cell lysate Lane2:The spleen tissue lysate of Mouse with PTK2 recombinant monoclonal antibody (Cat # RAB02694) at 1:1000 dilution.

## 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
- Focal adhesion
- Leukocyte transendothelial migration
- Pathways in cancer

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- 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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