

FRK Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1315a**Specification**

FRK Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	P42685
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	58kDa KDa

Description

FRK (Fyn-related kinase), also known as Rak. It is an epithelial tissue-specific kinase. The human FRK gene maps to chromosome 6q21-q22.3 and encodes a 505 amino acid protein. The protein belongs to the TYR family of protein kinases. This tyrosine kinase is a nuclear protein and may function during G1 and S phase of the cell cycle and suppress growth.

Immunogen

Purified recombinant fragment of human FRK expressed in E. Coli.

Formulation

Antibody are purified by protein G affinity chromatography.
Liquid in PBS containing 50% glycerol and 0.03% sodium azide.

FRK Antibody - Additional Information

Gene ID 2444

Other Names

Tyrosine-protein kinase FRK, 2.7.10.2, FYN-related kinase, Nuclear tyrosine protein kinase RAK, Protein-tyrosine kinase 5, FRK, PTK5, RAK

Dilution

WB~~1/500 - 1/2000
IHC~~1:200~~1000
IF~~1:200~1000.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

FRK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FRK Antibody - Protein Information

Name FRK

Synonyms PTK5, RAK

Function

Non-receptor tyrosine-protein kinase that negatively regulates cell proliferation. Positively regulates PTEN protein stability through phosphorylation of PTEN on 'Tyr-336', which in turn prevents its ubiquitination and degradation, possibly by reducing its binding to NEDD4. May function as a tumor suppressor.

Cellular Location

Cytoplasm. Nucleus. Note=Predominantly found in the nucleus, with a small fraction found in the cell periphery

Tissue Location

Predominantly expressed in epithelial derived cell lines and tissues, especially normal liver, kidney, breast and colon

FRK Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

FRK Antibody - Images

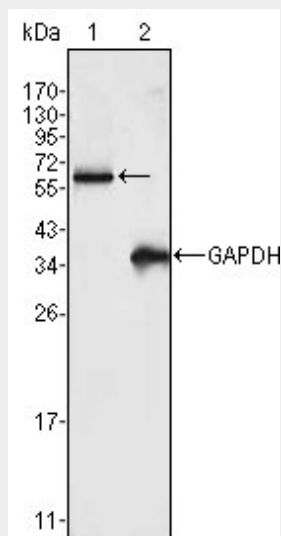


Figure 1: Western blot analysis using FRK mouse mAb against K562 cell lysate (1).

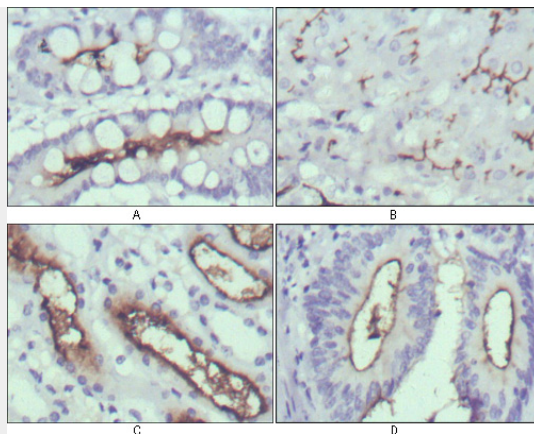


Figure 2: Immunohistochemical analysis of paraffin-embedded human normal stomach (A), normal liver (B), normal kidney (C) and rectum cancer tissues (D) using WNT10B mouse mAb with DAB staining.

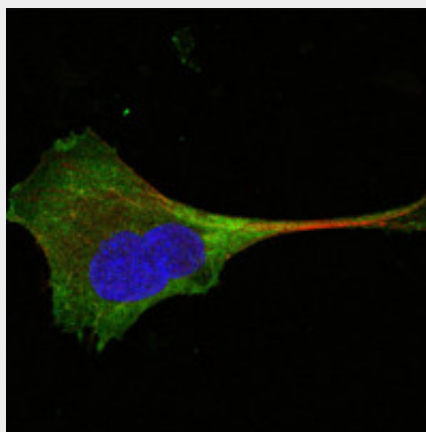


Figure 3: Confocal immunofluorescence analysis of PANC-1 cells using anti-WNT10B mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

FRK Antibody - References

1. Cell Growth Differ. 1994 Dec;5(12):1347-55.
2. Int J Cancer. 2003 Mar 20;104(2):139-46.