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FRK Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1315a

Product Information

Application	WB, E
Primary Accession	P42685
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4E1
Isotype	IgG1
Calculated MW	58254
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.

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 E~~N/A
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.

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

References

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

Images

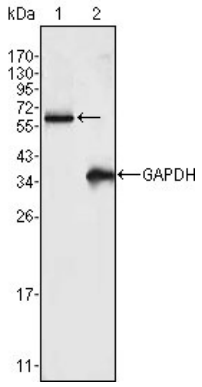

Figure 1: Western blot analysis using FRK mouse mAb against K562 cell lysate (1).

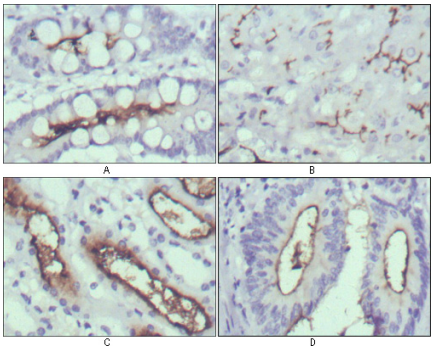

Figure 2: Immunohistochemical analysis of paraffin-embedded human normal stomach (A), normal liver (B), normal kidney (C) and rectum cancer tissues (D) using WNT10B mouse mAb with DAB staining.

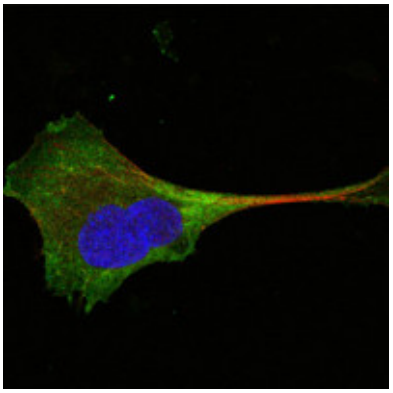

Figure 3: Confocal immunofluorescence analysis of PANC-1 cells using anti-WNT10B mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Blue: DRAQ5 fluorescent DNA dye.