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FRK Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1194a

Product Information

Application	WB, IHC, E
Primary Accession	P42685
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1A8H2C12
Isotype	IgG1
Calculated MW	58254
Description	FRK: fyn-related kinase. The protein encoded by this gene 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 FRK (aa2-300) expressed in E. Coli.
Formulation	Ascitic fluid containing 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 IHC~~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. Int J Cancer. 1993 Jun 19;54(4):571-7. 2. Proc Natl Acad Sci U S A. 2002 Dec 24;99(26):16899-903. 3. Neurosci Lett. 2004 Apr 22;360(1-2):109-11.

Images

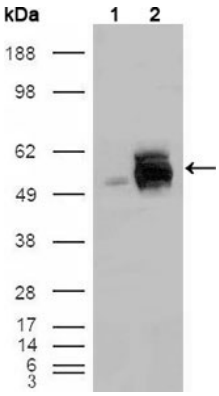

Figure 1: Western blot analysis using FRK mouse mAb against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY FRK cDNA (2).

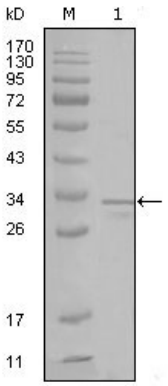

Figure 2: Western blot analysis using FRK mouse mAb against truncated FRK-His recombinant protein (1).

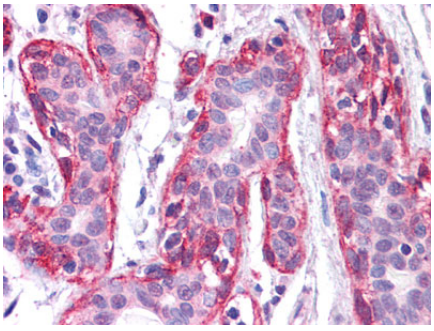

Figure 3: Immunohistochemical analysis of paraffin-embedded human Breast tissues using FRK mouse mAb.