FRK Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	FRK, Blocking Peptide
Full Product Name	FRK Antibody (N-term) Blocking Peptide
Product Gene Name	FRK blocking peptide
Product Synonym Gene Name	PTK5; RAK
Product Synonym Names	Tyrosine-protein kinase FRK; FYN-related kinase; Nuclear tyrosine protein kinase RAK; Protein-tyrosine kinase 5; FRK; PTK5; RAK
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human FRK. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	FRK peptide (MBS9227185) is used for blocking the activity of FRK antibody (MBS9208506)
Molecular Weight	41,980 Da
OMIM	606573
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.
Related Product Information for FRK blocking peptide	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.
Other Notes	Small volumes of FRK blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FRK purchase	MBS9227185 is a blocking peptide targeting FRK. Also known as FRK Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FRK. It may not necessarily be applicable to this product.

NCBI GI #	1169745
NCBI GeneID	2444
NCBI Accession #	P42685.1
UniProt Primary Accession #	P42685
UniProt Secondary Accession #	Q13128; Q9NTR5; B4DY49
UniProt Related Accession #	P42685
NCBI Official Full Name	Tyrosine-protein kinase FRK
NCBI Official Synonym Full Names	fyn related Src family tyrosine kinase

NCBI Official Symbol	FRK
NCBI Official Synonym Symbols	GTK; RAK; PTK5
UniProt Protein Name	Tyrosine-protein kinase FRK
UniProt Synonym Protein Names	FYN-related kinase; Nuclear tyrosine protein kinase RAK; Protein-tyrosine kinase 5
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	FRK
UniProt Synonym Gene Names	PTK5; RAK
UniProt Entry Name	FRK_HUMAN
NCBI Protein Information	tyrosine-protein kinase FRK
NCBI Summary for FRK	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. [provided by RefSeq, Jul 2008]
UniProt Comments for FRK	FRK: a tyrosine kinase of the Src family. Expressed in cell lines derived from tissues of lymphoid, brain, breast, colon and bladder origin. A nuclear protein that may function during G1 and S phase of the cell cycle to suppress growth. Protein type: EC 2.7.10.2; Tumor suppressor; Protein kinase, tyrosine (non-receptor); Kinase, protein; Protein kinase, TK; TK group; Src family Chromosomal Location of Human Ortholog: 6q21-q22.3 Cellular Component: cytoplasm; extrinsic to internal side of plasma membrane; intracellular; intracellular membrane-bound organelle; nucleus Molecular Function: protein binding; receptor binding Biological Process: cell differentiation; innate immune response; negative regulation of cell proliferation; negative regulation of transcription from RNA polymerase II promoter; protein amino acid phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on FRK	**1.** antagomir-1290 significantly inhibited the proliferation, clonogenicity, invasion, and migration of CD133(+) cells by targeting fyn-related Src family tyrosine kinase.
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