FRK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FRK, Polyclonal Antibody
Full Product Name	FRK, NT (Tyrosine-protein Kinase FRK, Nuclear Tyrosine Protein Kinase RAK, FYN-related Kinase, Protein-tyrosine Kinase 5, PTK5, RAK) (MaxLight 490)
Product Gene Name	anti-FRK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human FRK.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	58,254 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (116262693..116381921, complement). Location: 6q21-q22.3
OMIM	606573
3D Structure	ModBase 3D Structure for P42685
Immunogen	Synthetic peptide selected from the N-terminal region of human FRK (KLH).
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-FRK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-FRK antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-FRK antibody	IHC: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FRK antibody	MBS6476969 is an antibody targeting FRK. Also known as FRK, NT (Tyrosine-protein Kinase FRK, Nuclear Tyrosine Protein Kinase RAK, FYN-related Kinase, Protein-tyrosine Kinase 5, PTK5, RAK) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-FRK antibody	1. Meyer, T., et al., Int. J. Cancer 104(2):139-146 (2003). 2. Craven, R.J., et al., Cancer Res. 55(18):3969-3972 (1995). 3. Cance, W.G., et al., Cell Growth Differ. 5(12):1347-1355 (1994). 4. Cance, W.G., et al., Int. J. Cancer 54(4):571-577 (1993). 5. Lee, J., et al., Gene 138(1-2), 247-251 (1994).

Other Notes	Small volumes of anti-FRK antibody 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.

ADDITIONAL DETAILS

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

NCBI GI #	4503787
NCBI GeneID	2444
NCBI Accession #	NP_002022.1
UniProt Primary Accession #	P42685
UniProt Secondary Accession #	Q13128; Q9NTR5
UniProt Related Accession #	P42685
GenBank Nucleotide #	NM_002031.2
NCBI Official Full Name	tyrosine-protein kinase FRK
NCBI Official Synonym Full Names	fyn-related 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; protein-tyrosine kinase 5; PTK5 protein tyrosine kinase 5; nuclear tyrosine protein kinase RAK
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: Protein kinase, TK; EC 2.7.10.2; Tumor suppressor; Kinase, protein; Protein kinase, tyrosine (non-receptor); TK group; Src family Chromosomal Location of Human Ortholog: 6q21-q22.3 Cellular Component: extrinsic to internal side of plasma membrane; cytoplasm; intracellular; nucleus Molecular Function: protein binding; non-membrane spanning protein tyrosine kinase activity; ATP binding; receptor binding Biological Process: negative regulation of cell proliferation; cell migration; innate immune response; cell differentiation; actin cytoskeleton organization and biogenesis; protein amino acid phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway; regulation of cell proliferation

Research Articles on FRK	**1.** these results clearly indicate that FRK may play a protective role against the progression of glioma by suppressing cell migration and invasion
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