FRK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Frk, Polyclonal Antibody
Full Product Name	Frk, CT (Frk, Bsk, Iyk, Tyrosine-protein kinase FRK, Beta-cell Src-homology tyrosine kinase, FYN-related kinase, Intestine tyrosine kinase) (MaxLight 490)
Product Gene Name	anti-Frk antibody
Product Synonym Names	Frk; Bsk; Iyk; Tyrosine-protein kinase FRK; Beta-cell Src-homology tyrosine kinase; FYN-related kinase; Intestine tyrosine kinase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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.
3D Structure	ModBase 3D Structure for Q922K9
Immunogen	Mouse Frk antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 463-491 amino acids from the C-terminal region of Mouse Frk.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-Frk antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Frk antibody	Western Blot (WB), FLISA
Application Notes for anti-Frk antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Frk antibody	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 (By similarity).
Product References and Citations for anti-Frk antibody	Akerblom, B., et al. Mol. Cell. Endocrinol. 270 (1-2), 73-78 (2007): Nishimura, M., et al. DNA Res. 11(5):315-323(2004). Sharov, A.A., et al. PLoS Biol. 1 (3), E74 (2003): Cowen, M.S., et al. Alcohol. Clin. Exp. Res. 27(8):1213-1219(2003). Serfas, M.S., et al. Oncol. Res. 13 (6-10), 409-419 (2003).
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.

Searchable Terms for Frk purchase	MBS6300131 is an antibody targeting Frk. Also known as Frk, CT (Frk, Bsk, Iyk, Tyrosine-protein kinase FRK, Beta-cell Src-homology tyrosine kinase, FYN-related kinase, Intestine tyrosine kinase) (MaxLight 490). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	31542823
NCBI GeneID	14302
NCBI Accession #	NP_034367.2
NCBI Related Accession #	NP_001153016.1
UniProt Primary Accession #	Q922K9
UniProt Related Accession #	Q922K9
GenBank Nucleotide #	NP_034367.2
NCBI Official Full Name	tyrosine-protein kinase FRK
NCBI Official Synonym Full Names	fyn-related kinase
NCBI Official Symbol	Frk
NCBI Official Synonym Symbols	BSK; GTK; RAK; C85044; BSK/IYK
UniProt Protein Name	Tyrosine-protein kinase FRK
UniProt Synonym Protein Names	Beta-cell Src-homology tyrosine kinase; BSK; FYN-related kinase; Intestine tyrosine kinase
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	Frk
UniProt Synonym Gene Names	Bsk; Iyk; BSK
UniProt Entry Name	FRK_MOUSE
NCBI Protein Information	tyrosine-protein kinase FRK
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; Protein kinase, tyrosine (non-receptor); Kinase, protein; Tumor suppressor; TK group; Src family Cellular Component: extrinsic to internal side of plasma membrane; cytoplasm; plasma membrane; nucleus Molecular Function: transferase activity; protein-tyrosine kinase activity; transferase activity, transferring phosphorus-containing groups; nucleotide binding; non-membrane spanning protein tyrosine kinase activity; kinase activity; ATP binding; protein kinase activity; receptor binding Biological Process: cell migration; innate immune response; cell differentiation; actin cytoskeleton organization and biogenesis; protein amino acid phosphorylation; phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway; regulation of cell proliferation
Research Articles on Frk	**1.** These results show that FRK affects beta cell number during embryogenesis and early in life, but is probably redundant for beta cell number and function in adult animals under normal conditions.

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