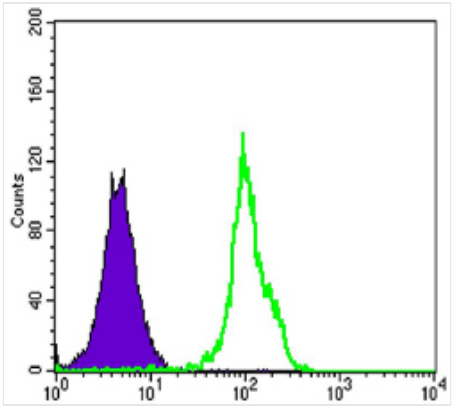
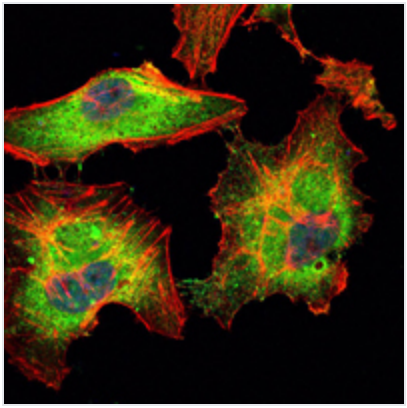
BLK Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

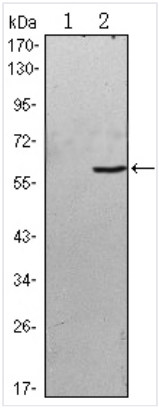
Product Name	Blk, Monoclonal Antibody
Full Product Name	Blk Monoclonal Antibody
Product Gene Name	anti-Blk antibody
Product Synonym Names	Tyrosine-protein kinase Blk; BLK; Tyrosine-protein kinase Blk; B lymphocyte kinase; p55-Blk
Clonality	Monoclonal
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	Affinity purification
Specificity	Blk Monoclonal Antibody detects endogenous levels of Blk protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	57,706 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (11351521..11422108). Location: 8p23-p22
OMIM	191305
3D Structure	ModBase 3D Structure for P51451
Immunogen	Purified recombinant fragment of human Blk expressed in E coli.
Modification	Unmodified/Total
Product Categories/Family for anti-Blk antibody	Primary Antibodies
Applications Tested/Suitable for anti-Blk antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FC/FACS/FCM), ELISA (EIA)
Application Notes for anti-Blk antibody	WB: 1:500-1:2000 IF: 1:200-1:1000 FC/FACS/FCM: 1:200-1:400 ELISA: 1:10000
Related Product Information for anti-Blk antibody	This gene encodes a nonreceptor tyrosine-kinase of the src family of proto-oncogenes that are typically involved in cell proliferation and differentiation. The protein has a role in B-cell receptor signaling and B-cell development. The protein also stimulates insulin synthesis and secretion in response to glucose and enhances the expression of several pancreatic beta-cell transcription factors. [provided by RefSeq, Aug 2010]
Other Notes	Small volumes of anti-Blk 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 Blk purchase	MBS9524721 is an antibody targeting Blk. Also known as Blk Monoclonal Antibody. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-Blk antibody
Western Blot analysis using Blk Monoclonal Antibody against HEK293 (1) and BLK-hIgGFc transfected HEK293 (2) cell lysate.



Immunofluorescence (IF) of anti-Blk antibody
Immunofluorescence analysis of Hela cells using Blk Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow Cytometry (FC/FACS) of anti-Blk antibody
Flow cytometric analysis of HL-60 cells using Blk Monoclonal Antibody (green) and negative control (purple).

ADDITIONAL DETAILS

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

NCBI GI #	33469982
NCBI GeneID	640
NCBI Accession #	NP_001706.2
UniProt Primary Accession #	P51451
UniProt Secondary Accession #	Q16291; Q96IN1
UniProt Related Accession #	P51451
GenBank Nucleotide #	NM_001715.2
NCBI Official Full Name	tyrosine-protein kinase Blk
NCBI Official Synonym Full Names	B lymphoid tyrosine kinase
NCBI Official Symbol	BLK
NCBI Official Synonym Symbols	MODY11
UniProt Protein Name	Tyrosine-protein kinase Blk
UniProt Synonym Protein Names	B lymphocyte kinase; p55-Blk
Protein Family	Tyrosine-protein kinase

UniProt Gene Name	BLK
UniProt Entry Name	BLK_HUMAN
NCBI Protein Information	tyrosine-protein kinase Blk; p55-Blk; b lymphocyte kinase; BLK nonreceptor tyrosine kinase
UniProt Comments for Blk	BLK: a nonreceptor tyrosine kinase of the Src family. Expressed predominantly in B lymphocytes Protein type: Protein kinase, TK; Protein kinase, tyrosine (non-receptor); Kinase, protein; EC 2.7.10.2; TK group; Src family Chromosomal Location of Human Ortholog: 8p23-p22 Cellular Component: extrinsic to internal side of plasma membrane Molecular Function: protein binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; ATP binding; receptor binding Biological Process: B cell receptor signaling pathway; innate immune response; positive regulation of insulin secretion; transmembrane receptor protein tyrosine kinase signaling pathway; regulation of cell proliferation; T cell differentiation Disease: Maturity-onset Diabetes Of The Young, Type 11
Research Articles on Blk	**1.** Blk allele expression differences at the protein level are restricted to early B cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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