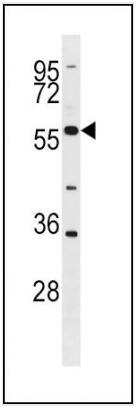
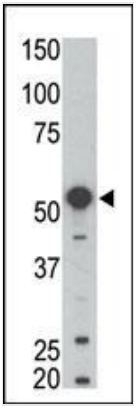
BLK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

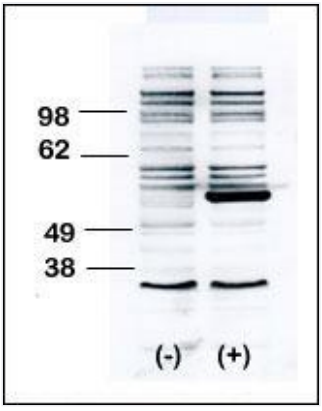
Product Name	BLK, Polyclonal Antibody
Full Product Name	BLK, NT (Tyrosine-protein Kinase Blk, B Lymphoid Tyrosine Kinase, p55-Blk) (Biotin)
Product Gene Name	anti-BLK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human BLK. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
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	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 1-30 in the N-terminal region of human BLK, UniProt Accession #P54151.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-BLK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-BLK antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-BLK antibody	IHC: 1:50-1:100 ELISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-BLK antibody	MBS6465375 is an antibody targeting BLK. Also known as BLK, NT (Tyrosine-protein Kinase Blk, B Lymphoid Tyrosine Kinase, p55-Blk) (Biotin). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-BLK antibody	1. Islam, K.B., et al., J. Immunol. 154(3):1265-1272 (1995). 2. Drebin, J.A., et al., Oncogene 10(3):477-486 (1995).
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.



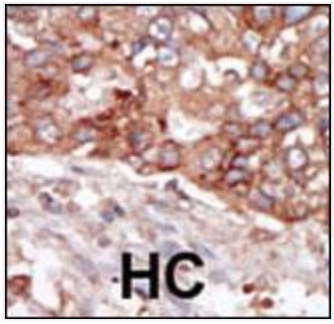
Western Blot (WB) of anti-BLK antibody
Western Blot analysis of MBS630698 in HL-60 cell line lysates (35ug/lane).This demonstrates the BLK antibody detected the BLK protein (arrow).



Western Blot (WB) of anti-BLK antibody
Western Blot analysis of MBS630698 in mouse kidney tissue lysate. BLK (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western Blot (WB) of anti-BLK antibody
Western Blot analysis of MBS630698 transiently transfected HEK-293 cell line lysate (1ug/lane). BLK pab(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-BLK antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted withMBS630698, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

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
NCBI Summary for BLK	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]
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.
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