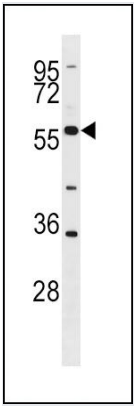
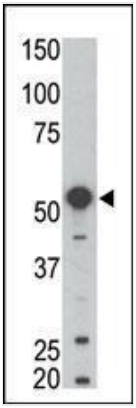
BLK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

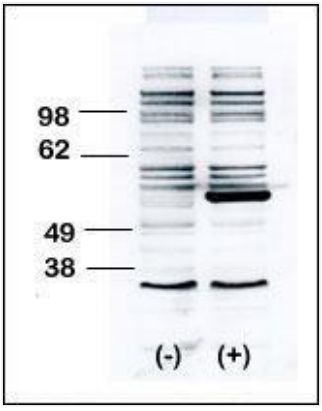
Product Name	BLK, Polyclonal Antibody
Full Product Name	BLK, NT (Tyrosine-protein Kinase Blk, B Lymphoid Tyrosine Kinase, p55-Blk) (AP)
Product Gene Name	anti-BLK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human BLK. Species Crossreactivity: mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Do not freeze alkaline phosphatase conjugates which could result in a substantial loss of enzymatic activity. Light sensitive. Aliquots are stable for at least 6 months. 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	AP
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	MBS6465373 is an antibody targeting BLK. Also known as BLK, NT (Tyrosine-protein Kinase Blk, B Lymphoid Tyrosine Kinase, p55-Blk) (AP). 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.



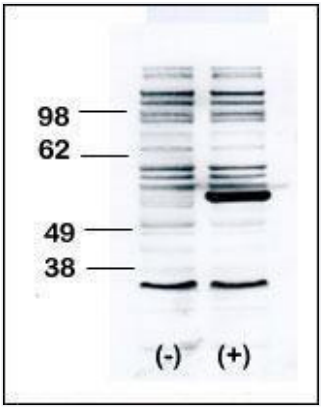
Western Blot (WB) of anti-BLK antibody
Western Blot analysis of MBS630698 in HL-60 cell line lysates (35ug/lane).This demonstrates the BLK antibody detected the BLK protein (arrow).



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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