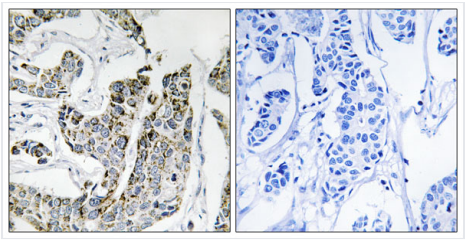
BLK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BLK, Polyclonal Antibody
Full Product Name	BLK (Phospho-Tyr501) Antibody
Product Gene Name	anti-BLK antibody
Product Synonym Names	B lymphocyte kinase; p55-BLK
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Concentration	1 mg/ml (lot specific)
Specificity	BLK (Phospho-Tyr501) Antibody detects endogenous levels of BLK only when phosphorylated at Tyr501.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	57 kDa
OMIM	Z33998 mRNA
3D Structure	ModBase 3D Structure for P51451
Target Modification	Phospho
Modification Sites	H:Y501; M:Y495; R:Y495
Immunogen	The antiserum was produced against synthesized peptide derived from human BLK around the phosphorylation site of Tyr501.
Immunogen Range	456-505
Applications Tested/Suitable for anti-BLK antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-BLK antibody	IHC: 1:50~1:100 ELISA: 1:20000
Related Product Information for anti-BLK antibody	MBS9503241 is an antibody targeting BLK. Also known as BLK (Phospho-Tyr501) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
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.



Immunohistochemistry (IHC) of anti-BLK antibody
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using BLK (Phospho-Tyr501) Antibody. The picture on the right is blocked with the phospho peptide.

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 isoform 1
NCBI Official Synonym Full Names	BLK proto-oncogene, Src family 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
NCBI Protein Information	tyrosine-protein kinase Blk
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	Non-receptor tyrosine kinase involved in B-lymphocyte development, differentiation and signaling. B-cell receptor (BCR) signaling requires a tight regulation of several protein tyrosine kinases and phosphatases, and associated coreceptors. Binding of antigen to the B-cell antigen receptor (BCR) triggers signaling that ultimately leads to B-cell activation. Signaling through BLK plays an important role in transmitting signals through surface immunoglobulins and supports the pro-B to pre-B transition, as well as the signaling for growth arrest and apoptosis downstream of B-cell receptor. Specifically binds and phosphorylates CD79A at 'Tyr-188'and 'Tyr-199', as well as CD79B at 'Tyr-196' and 'Tyr-207'. Phosphorylates also the immunoglobulin G receptors FCGR2A, FCGR2B and FCGR2C. With FYN and LYN, plays an essential role in pre-B-cell receptor (pre-BCR)-mediated NF-kappa-B activation. Contributes also to BTK activation by indirectly stimulating BTK intramolecular autophosphorylation. In pancreatic islets, acts as a modulator of beta-cells function through the up-regulation of PDX1 and NKX6-1 and consequent stimulation of insulin secretion in response to glucose.
Research Articles on BLK	**1.** This meta-analysis confirms that polymorphisms in the BLK alleles rs13277113 A/G, rs2736340 T/C, and rs2248932 T/C are associated with susceptibility to SLE in Caucasian and Asian populations.

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