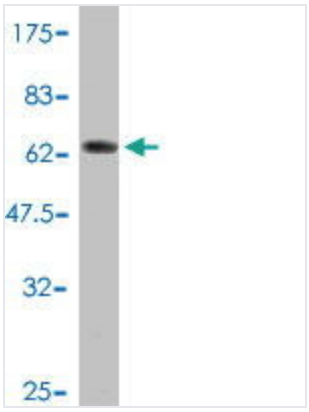
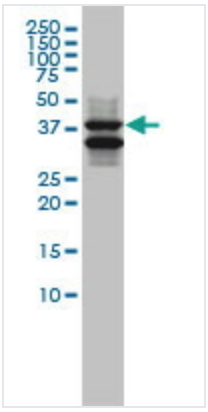
SH3GLB1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

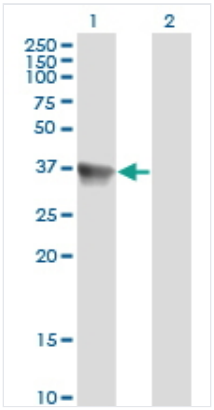
Product Name	SH3GLB1, Monoclonal Antibody
Full Product Name	SH3GLB1 (Endophilin-B1, Bax-interacting Factor 1, Bif-1, SH3 Domain-containing GRB2-like Protein B1, KIAA0491, CGI-61) APC
Product Gene Name	anti-SH3GLB1 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1B3-A5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SH3GLB1.
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 amo
OMIM	609287
3D Structure	ModBase 3D Structure for Q9Y371
Immunogen	Full length recombinant corresponding to aa1-366 from human SH3GLB1 (AAH07455) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MNIMDFNVKKLAADAGTFLSRAVQFTEEKLGQAEKTELDAHLENLLSKAECTKIWTEKIMKQTEVLLQPNPNARIEEFVYEKLDRKAPSRINNPELLGQYMI
Conjugate	APC
Product Categories/Family for anti-SH3GLB1 antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-SH3GLB1 antibody	ELISA (EIA), Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-SH3GLB1 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-SH3GLB1 antibody	MBS6139038 is an antibody targeting SH3GLB1. Also known as SH3GLB1 (Endophilin-B1, Bax-interacting Factor 1, Bif-1, SH3 Domain-containing GR
Other Notes	Small volumes of anti-SH3GLB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nec



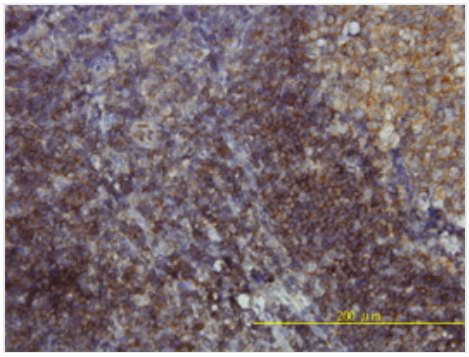
Western Blot (WB) of anti-SH3GLB1 antibody
Western Blot detection against Immunogen (66.26kD).



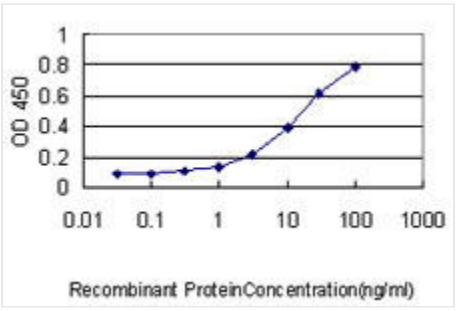
Western Blot (WB) of anti-SH3GLB1 antibody
SH3GLB1 monoclonal antibody, Western Blot analysis of SH3GLB1 expression in K-562.



Western Blot (WB) of anti-SH3GLB1 antibody
Western Blot analysis of SH3GLB1 expression in transfected 293T cell line by SH3GLB1 monoclonal antibody. Lane 1: SH3GLB1 transfected lysate (40.8kD). Lane 2: Non-transfected lysate.



Immunohistochemistry (IHC) of anti-SH3GLB1 antibody
Immunoperoxidase of monoclonal antibody to SH3GLB1 on formalin-fixed paraffin-embedded human tonsil tissue. [antibody concentration 3ug/ml]



Testing Data of anti-SH3GLB1 antibody
Detection limit for recombinant GST tagged SH3GLB1 is ~0.3ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SH3GLB1. It may not necessarily be applicable to this product.

NCBI GI #	34782815
NCBI GeneID	51100
NCBI Accession #	BC007455
NCBI Related Accession #	AAH07455
UniProt Primary Accession #	Q9Y371
UniProt Related Accession #	Q9Y371

NCBI Official Full Name	Homo sapiens SH3-domain GRB2-like endophilin B1, mRNA
NCBI Official Synonym Full Names	SH3 domain containing GRB2 like, endophilin B1
NCBI Official Symbol	SH3GLB1
NCBI Official Synonym Symbols	Bif-1; CGI-61; PPP1R70; dJ612B15.2
UniProt Protein Name	Endophilin-B1
UniProt Synonym Protein Names	Bax-interacting factor 1; Bif-1; SH3 domain-containing GRB2-like protein B1
Protein Family	Endophilin
UniProt Gene Name	SH3GLB1
UniProt Synonym Gene Names	KIAA0491; Bif-1
UniProt Entry Name	SHLB1_HUMAN
NCBI Protein Information	endophilin-B1
NCBI Summary for SH3GLB1	This gene encodes a SRC homology 3 domain-containing protein. The encoded protein interacts with the proapoptotic member of the Bcl-2 family, Bcl-2-associated X protein (Bax) and may be involved in regulating apoptotic signaling pathways. This protein may also be involved in maintaining mitochondrial morphology. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]
UniProt Comments for SH3GLB1	SH3GLB1: May be required for normal outer mitochondrial membrane dynamics. Required for coatomer-mediated retrograde transport in certain cells. May recruit other proteins to membranes with high curvature. May promote membrane fusion. Binds DNM1, HTT, AMPH, BIN1 and ARFGAP1. Homodimer, and heterodimer with SH3GLB2. Binds BAX. Induction of apoptosis augments BAX binding. Highly expressed in heart, skeletal muscle, kidney and placenta. Detected at lower levels in brain, colon, thymus, spleen, liver, small intestine, lung and peripheral blood leukocytes. Belongs to the endophilin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.3.1.-; Autophagy; Mitochondrial; Transferase; Apoptosis Chromosomal Location of Human Ortholog: 1p22 Cellular Component: Golgi membrane; mitochondrial outer membrane; cytoplasm Molecular Function: identical protein binding; protein binding; protein homodimerization activity; lipid binding Biological Process: positive regulation of protein oligomerization; apoptosis; protein oligomerization
Research Articles on SH3GLB1	**1.** during cell stress, Bif-1 regulates mitochondrial inner membrane by interacting with prohibitin-2 to disrupt prohibitin complexes and induce OPA1 proteolysis and inactivation.
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