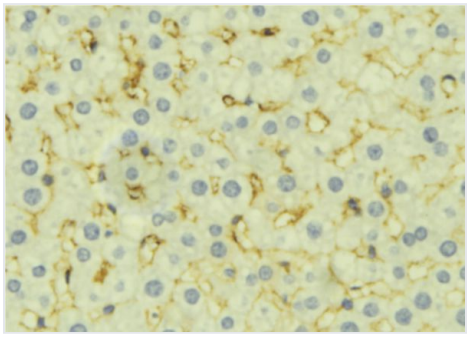
DIABLO Antibody – Rabbit Polyclonal

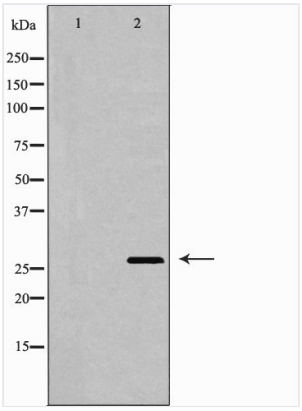
PRODUCT OVERVIEW

Product Name	DIABLO, Polyclonal Antibody
Full Product Name	DIABLO Antibody
Product Gene Name	anti-DIABLO antibody
Product Synonym Names	0610041G12Rik; DBLOH_HUMAN; DBOH; DFNA64; diablo; Diablo homolog (Drosophila); Diablo homolog; Diablo homolog mitochondrial; Diablo IAP binding mitochondrial protein; Diablo like protein; DIABLO S; Direct IAP binding protein with low pI; Direct IAP-binding protein with low pI; FLJ10537; FLJ25049; mitochondrial; Mitochondrial Smac protein; Second mitochondria derived activator of caspase; Second mitochondria-derived activator of caspase; SMAC 3; Smac; Smac protein; SMAC3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	DIABLO antibody detects endogenous levels of total DIABLO
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	DIABLO peptide (MBS9626383) is used for blocking the activity of DIABLO antibody (MBS9607670)
Molecular Weight	Observed: 27 kDa Predicted: 28 kDa
3D Structure	ModBase 3D Structure for Q9NR28
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human DIABLO
Subcellular Location	Mitochondrion. Released into the cytosol when cells undergo apoptosis.
Tissue Specificity	Ubiquitously expressed with highest expression in testis. Expression is also high in heart, liver, kidney, spleen, prostate and ovary. Low in brain, lung, thymus and peripheral blood leukocytes. Isoform 3 is ubiquitously expressed.
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DIABLO antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-DIABLO antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

Related Product Information for anti-DIABLO antibody	Description: This gene encodes an inhibitor of apoptosis protein (IAP)-binding protein. The encoded mitochondrial protein enters the cytosol when cells undergo apoptosis, and allows activation of caspases by binding to inhibitor of apoptosis proteins. Overexpression of the encoded protein sensitizes tumor cells to apoptosis. A mutation in this gene is associated with young-adult onset of nonsyndromic deafness-64. Alternative splicing results in multiple transcript variants encoding different isoforms. Function: Promotes apoptosis by activating caspases in the cytochrome c/Apaf-1/caspase-9 pathway. Acts by opposing the inhibitory activity of inhibitor of apoptosis proteins (IAP). Inhibits the activity of BIRC6/bruce by inhibiting its binding to caspases. Isoform 3 attenuates the stability and apoptosis-inhibiting activity of XIAP/BIRC4 by promoting XIAP/BIRC4 ubiquitination and degradation through the ubiquitin-proteasome pathway. Isoform 3 also disrupts XIAP/BIRC4 interacting with processed caspase-9 and promotes caspase-3 activation. Isoform 1 is defective in the capacity to down-regulate the XIAP/BIRC4 abundance. Subunit Structure: Homodimer. Interacts with BEX3 (By similarity). Interacts with BIRC2/c-IAP1, BIRC3/c-IAP2, XIAP/BIRC4, BIRC6/bruce and BIRC7/livin. Interacts with the monomeric and dimeric form of BIRC5/survivin. Post-translational Modifications: Ubiquitinated by BIRC7/livin. Similarity: The mature N-terminus mediates interaction with XIAP/BIRC4.
Other Notes	Small volumes of anti-DIABLO 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 DIABLO purchase	MBS9607670 is an antibody targeting DIABLO. Also known as DIABLO Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-DIABLO antibody
MBS9607670 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-DIABLO antibody
Western blot analysis of Mouse heart lysate, using DIABLO Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

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

NCBI GI #	508083041
NCBI GeneID	56616
NCBI Accession #	NP_001265231.1
UniProt Primary Accession #	Q9NR28
UniProt Secondary Accession #	Q6W3F3; Q96LV0; Q9BT11; Q9HAV6; B2RDQ0
UniProt Related Accession #	Q9NR28
GenBank Nucleotide #	NM_001278302.1
NCBI Official Full Name	diablo homolog, mitochondrial isoform 4
NCBI Official Synonym Full Names	diablo IAP-binding mitochondrial protein
NCBI Official Symbol	DIABLO
NCBI Official Synonym Symbols	SMAC; DFNA64

UniProt Protein Name	Diablo homolog, mitochondrial
UniProt Synonym Protein Names	Direct IAP-binding protein with low pI; Second mitochondria-derived activator of caspase; Smac
Protein Family	Diablo
UniProt Gene Name	DIABLO
UniProt Synonym Gene Names	SMAC; Smac
NCBI Protein Information	diablo homolog, mitochondrial
NCBI Summary for DIABLO	This gene encodes an inhibitor of apoptosis protein (IAP)-binding protein. The encoded mitochondrial protein enters the cytosol when cells undergo apoptosis, and allows activation of caspases by binding to inhibitor of apoptosis proteins. Overexpression of the encoded protein sensitizes tumor cells to apoptosis. A mutation in this gene is associated with young-adult onset of nonsyndromic deafness-64. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013]
UniProt Comments for DIABLO	Promotes apoptosis by activating caspases in the cytochrome c/Apaf-1/caspase-9 pathway. Acts by opposing the inhibitory activity of inhibitor of apoptosis proteins (IAP). Inhibits the activity of BIRC6/bruce by inhibiting its binding to caspases. Isoform 3 attenuates the stability and apoptosis-inhibiting activity of XIAP/BIRC4 by promoting XIAP/BIRC4 ubiquitination and degradation through the ubiquitin-proteasome pathway. Isoform 3 also disrupts XIAP/BIRC4 interacting with processed caspase-9 and promotes caspase-3 activation. Isoform 1 is defective in the capacity to down-regulate the XIAP/BIRC4 abundance.
Research Articles on DIABLO	**1.** Mechanistic studies showed that Smac can inhibit the expression of Survivin, promote cell apoptosis of drug-resistant ovarian cancer cells and reverse the drug resistance.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/diablo/9607670