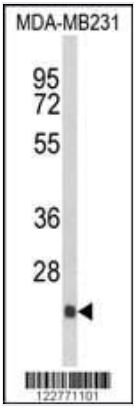
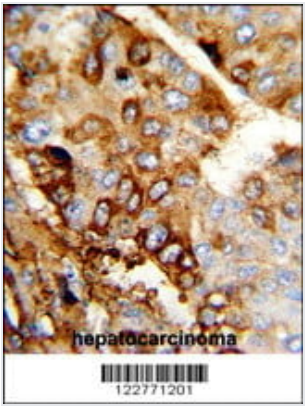
DERL2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

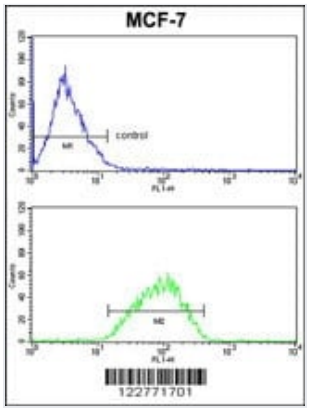
Product Name	DERL2, Polyclonal Antibody
Full Product Name	DERL2, CT (Derlin-2, Der1-like Protein 2, Degradation In Endoplasmic Reticulum Protein 2, DERtrin-2, F-LAN-1, F-LANa, SBBI53, CGI-101, FLANA, DER2)
Product Gene Name	anti-DERL2 antibody
Product Synonym Names	Anti -DERL2, CT (Derlin-2, Der1-like Protein 2, Degradation In Endoplasmic Reticulum Protein 2, DERtrin-2, F-LAN-1, F-LANa, SBBI53, CGI-101, FLANA, DER2)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human DERL2.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	27,567 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (5377613..5389497, complement). Location: 17p13.2
OMIM	610304
3D Structure	ModBase 3D Structure for Q9GZP9
Immunogen	Synthetic peptide selected from the C-terminal region of human DERL2 (KLH).
Product Categories/Family for anti-DERL2 antibody	Antibodies; Abs to Membrane Proteins
Applications Tested/Suitable for anti-DERL2 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-DERL2 antibody	Suitable for use in ELISA and Western Blot. Dilution: ELISA: 1:1,000 Western Blot: 1:100-1:500
Related Product Information for anti-DERL2 antibody	Proteins that are unfolded or misfolded in the endoplasmic reticulum (ER) must be refolded or degraded to maintain the homeostasis of the ER. DERL2 is involved in the degradation of misfolded glycoproteins in the ER.
Other Notes	Small volumes of anti-DERL2 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 DERL2 purchase	MBS625049 is an antibody targeting DERL2. Also known as DERL2, CT (Derlin-2, Der1-like Protein 2, Degradation In Endoplasmic Reticulum Protein 2, DERtrin-2, F-LAN-1, F-LANa, SBBI53, CGI-101, FLANA, DER2). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DERL2 antibody
Western blot analysis of DERL2 Antibody (C-term) in MDA-MB231 cell line lysates (35ug/lane). DERL2 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-DERL2 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with DERL2 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Testing Data of anti-DERL2 antibody
DERL2 Antibody (C-term) FC analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DERL2. It may not necessarily be applicable to this product.

NCBI GI #	31455614
NCBI GeneID	51009
NCBI Accession #	NP_057125.2
UniProt Primary Accession #	Q9GZP9
UniProt Secondary Accession #	Q9Y3A7
UniProt Related Accession #	Q9GZP9
GenBank Nucleotide #	NM_016041.3
NCBI Official Full Name	derlin-2
NCBI Official Synonym Full Names	Der1-like domain family, member 2
NCBI Official Symbol	DERL2
NCBI Official Synonym Symbols	FLANa; F-LANa; CGI-101; F-LAN-1
UniProt Protein Name	Derlin-2
UniProt Synonym Protein Names	Degradation in endoplasmic reticulum protein 2; DERtrin-2; Der1-like protein 2; F-LAN-1; F-LANa

Protein Family	Derlin
UniProt Gene Name	DERL2
UniProt Synonym Gene Names	DER2; FLANA
UniProt Entry Name	DERL2_HUMAN
NCBI Protein Information	derlin-2; DERtrin-2; carcinoma related; OTTHUMP00000128204; der1-like protein 2; degradation in endoplasmic reticulum protein 2
NCBI Summary for DERL2	Proteins that are unfolded or misfolded in the endoplasmic reticulum (ER) must be refolded or degraded to maintain the homeostasis of the ER. DERL2 is involved in the degradation of misfolded glycoproteins in the ER (Oda et al., 2006 [PubMed 16449189]).[supplied by OMIM]
UniProt Comments for DERL2	DERL2: Functional component of endoplasmic reticulum-associated degradation (ERAD) for misfolded lumenal glycoproteins, but not that of misfolded nonglycoproteins. May act by forming a channel that allows the retrotranslocation of misfolded glycoproteins into the cytosol where they are ubiquitinated and degraded by the proteasome. May mediate the interaction between VCP and the degradation substrate. In contrast to DERL1, it is not involved in the degradation of MHC class I heavy chains following infection by cytomegaloviruses. May play a role in cell proliferation. Belongs to the derlin family. Protein type: Endoplasmic reticulum; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 17p13.2 Cellular Component: endoplasmic reticulum membrane; membrane; endoplasmic reticulum; early endosome; late endosome; integral to endoplasmic reticulum membrane Molecular Function: protein binding Biological Process: retrograde protein transport, ER to cytosol; ER-associated protein catabolic process; suckling behavior; unfolded protein response; positive regulation of cell proliferation; positive regulation of cell growth
Research Articles on DERL2	**1.** Required for Polyoma virus infection.
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.
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