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DERL2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8707b

Specification

DERL2 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9GZP9
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**27567**
Antigen Region	**191-218**

DERL2 Antibody (C-term) - Additional Information

Gene ID 51009

Other Names
Derlin-2, Degradation in endoplasmic reticulum protein 2, DERtrin-2, Der1-like protein 2, F-LAN-1, F-LANa, DERL2, DER2, FLANA

Target/Specificity
This DERL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 191-218 amino acids from the C-terminal region of human DERL2.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DERL2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DERL2 Antibody (C-term) - Protein Information

Name DERL2 (HGNC:17943)

Function 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 misfolded glycoproteins (PubMed:16186509, PubMed:16449189). May also be involved in endoplasmic reticulum stress-induced pre-emptive quality control, a mechanism that selectively attenuates the translocation of newly synthesized proteins into the endoplasmic reticulum and reroutes them to the cytosol for proteasomal degradation (PubMed:26565908).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

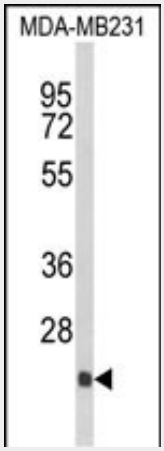
Tissue Location
Ubiquitous. Overexpressed in various hepatocarcinomas.

DERL2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

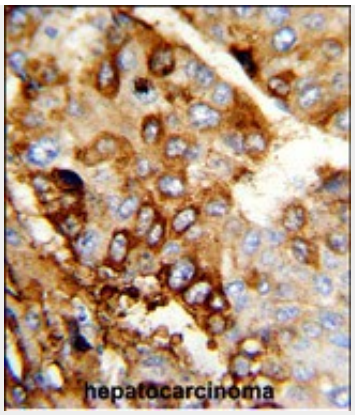
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DERL2 Antibody (C-term) - Images

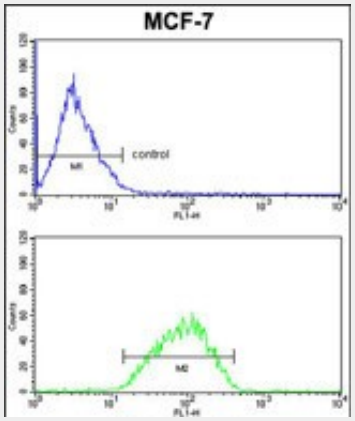


Western blot analysis of DERL2 Antibody (C-term) (Cat. #AP8707b) in MDA-MB231 cell line lysates (35ug/lane). DERL2 (arrow) was detected using the purified Pab.

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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.



DERL2 Antibody (C-term) (Cat.#AP8707b) 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.

DERL2 Antibody (C-term) - Background

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.

DERL2 Antibody (C-term) - References

Lilley,B.N.et.al., Nature 429 (6994), 834-840 (2004)