

## Product datasheet

# Anti-DERL1 antibody ab54545

### 1 References

#### Overview

<b>Product name</b>	Anti-DERL1 antibody
<b>Description</b>	Rabbit polyclonal to DERL1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Recombinant fragment <b>Predicted to work with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide corresponding to N-terminal residues of human DERL1.

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.01% Sodium Azide Constituents: 50% Glycerol, PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

Our [Abpromise guarantee](#) covers the use of **ab54545** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 29 kDa. for 2 hours. This antibody has been tested in Western blot against the recombinant peptide used as an immunogen. We have no data on detection of endogenous protein.

## Target

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### Relevance

Derlin 1 is a channel-like protein found in the endoplasmic reticulum (ER) membrane. It is specifically required for the degradation of misfolded ER luminal proteins. Derlin 1 participates in the transfer of misfolded proteins from the ER to the cytosol, where they are destroyed by the proteasome in a ubiquitin-dependent manner. It may act by forming a channel that allows the retrotranslocation of misfolded proteins into the cytosol and then transferring them to the ATPase VCP complex, which translocates and ubiquitinates misfolded proteins. In the case of infection by cytomegaloviruses, derlin 1 plays a central role in export from the ER and subsequent degradation of MHC class I heavy chains via its interaction with US11 viral protein, which recognizes and associates with MHC class I heavy chains. Derlin 1 also participates in the degradation of misfolded cytomegalovirus US2 protein.

### Cellular localization

Endoplasmic reticulum; multi pass membrane protein.

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