

Anti-DERL1(Derlin-1) Polyclonal Antibody

Cat. #: 60B661

Description:

DERL1 (Derlin-1) is specifically required for the degradation process of misfolded endoplasmic reticulum (ER) luminal proteins. DERL1 (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. DERL1 may act by forming a channel that allows the retro-translocation of misfolded proteins into the cytosol and transfer them to the ATPase VCP complex, which translocates and ubiquitinates misfolded proteins. In case of infection by the cytomegalovirus, it plays a central role in the 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. Also participates in the degradation process of misfolded cytomegalovirus US2 protein. DERL1 (Derlin-1) interacts with VIMP/SELS and indirectly with VCP, suggesting that it forms a membrane complex with VIMP that serves as a receptor for VCP.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human DERL1 (Derlin-1)

References

Clark,H.F., et al, Genome Res. 13 (10), 2265-2270 (2003)
Lilley,B.N. and Ploegh,H.L., Nature 429 (6994), 834-840 (2004)
Ye,Y., et al, Nature 429 (6994), 841-847 (2004)

Clone Number:

Isotype:

Species: human, mouse

Storage and Stability: at -20oC

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)