

Product datasheet for **AP21062PU-N**

KDEL2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections 1/50 - 1/200. Immunofluorescence: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of KDEL Receptor 2 protein. (region surrounding Leu119)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 24 kDa
Gene Name:	KDEL endoplasmic reticulum protein retention receptor 2
Database Link:	<u>Entrez Gene 66913 Mouse</u> <u>Entrez Gene 304290 Rat</u> <u>Entrez Gene 11014 Human P33947</u>



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Background:

Retention of resident soluble proteins in the lumen of the endoplasmic reticulum (ER) is achieved in both yeast and animal cells by their continual retrieval from the cis-Golgi, or a pre-Golgi compartment. Sorting of these proteins is dependent on a C-terminal tetrapeptide signal, usually lys-asp-glu-leu (KDEL) in animal cells, and his-asp-glu-leu (HDEL) in *S. cerevisiae*. This process is mediated by a receptor that recognizes, and binds the tetrapeptide-containing protein, and returns it to the ER. In yeast, the sorting receptor encoded by a single gene, ERD2, which is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. The protein encoded by this gene was the first member of the family to be identified, and it encodes a protein structurally and functionally similar to the yeast ERD2 gene product.

Synonyms:

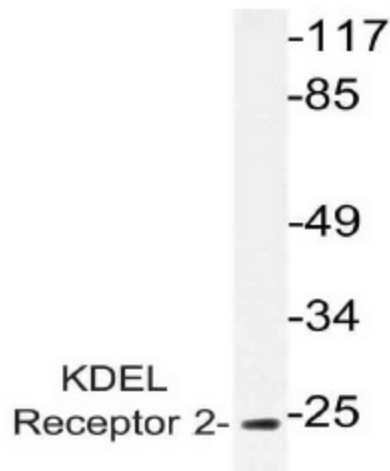
ERD2.2, ERD2-like protein 1, ELP-1

Protein Families:

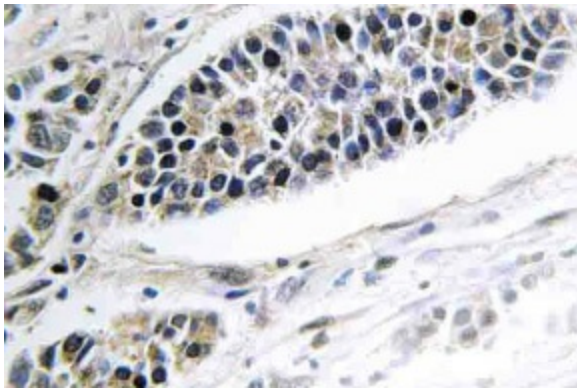
Druggable Genome, Transmembrane

Protein Pathways:

Vibrio cholerae infection

Product images:

Western blot (WB) analysis of KDEL Receptor 2 antibody (Cat.-No.: AP21062PU-N) in extracts from HUVEC cells.



Immunohistochemistry (IHC) analyzes of KDEL Receptor 2 antibody (Cat.-No.: AP21062PU-N) in paraffin-embedded human lung carcinoma tissue.