

## Product datasheet for **TA332203**

### KDEL2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-KDEL2 Antibody is: synthetic peptide directed towards the middle region of Human KDEL2. Synthetic peptide located within the following region: PVGGLSFLVNHDFSPLEYSRERSSVCQHKCQRPSASVLQGARTFLPQQ
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	21 kDa
Gene Name:	KDEL endoplasmic reticulum protein retention receptor 2
Database Link:	<a href="#">NP_001094073</a> <a href="#">Entrez Gene 11014 Human</a> <a href="#">P33947</a>



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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, is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. KDEL2 was the second member of the family to be identified, and it encodes a protein which is 83% identical to the KDEL1 gene product. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

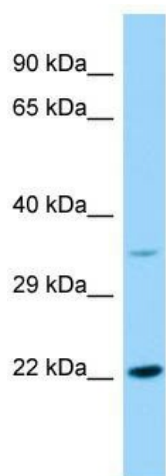
**Synonyms:** ELP-1; ERD2.2

**Note:** Immunogen sequence homology: Human: 100%

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Vibrio cholerae infection

### Product images:



Host: Rabbit; Target Name: KDEL2; Sample Tissue: RPMI-8226 Whole Cell lysates; Antibody Dilution: 1.0ug/ml