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Product datasheet for AP52327PU-N

KDELR2 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**ELISA:** 1/1000. **Western Blot:** 1/100-1/500. **Immunohistochemistry on Paraffin Sections:** 1/10-1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 182-211 amino acids from the C-terminal region of human KDELR2
Specificity:	This antibody recognizes Human KDEL Receptor 2 / KDELR2 (C-term).
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column, followed by peptide affinity purification
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.
Gene Name:	KDEL endoplasmic reticulum protein retention receptor 2
Database Link:	Entrez Gene 11014 Human P33947

View online »

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. KDELR2 was the second member of the family to be identified, and it encodes a protein which is 83% identical to the KDELR1 gene product. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq].

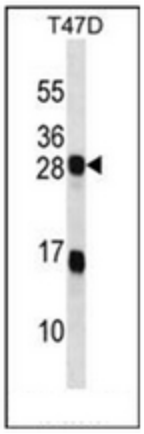
Synonyms: ERD2.2, ERD2-like protein 1, ELP-1

Note: **Molecular Weight:** 24422 Da

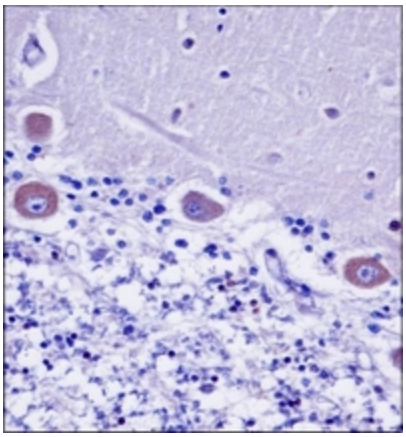
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Vibrio cholerae infection

Product images:



Western blot analysis of KDELR2 Antibody (C-term) in T47D cell line lysates (35ug/lane). This demonstrates the KDELR2 antibody detected the KDELR2 protein (arrow).



Immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue reacted with KDELR2 Antibody (C-term), which wasperoxidase conjugated to the secondary antibody and followed by DAB staining.