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Anti-KDELR2 Antibody
Rabbit polyclonal antibody to KDELR2
Catalog # AP60475

Specification

Anti-KDELR2 Antibody - Product Information

Application	**WB, IF/IC, IHC**
Primary Accession	P33947
Other Accession	Q9CQM2
Reactivity	**Human, Mouse, Rat, Zebrafish, Pig, Chicken, Bovine, SARS**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**24422**

Anti-KDELR2 Antibody - Additional Information

Gene ID 11014

Other Names
ERD2.2; ER lumen protein retaining receptor 2; ERD2-like protein 1; ELP-1; KDEL endoplasmic reticulum protein retention receptor 2; KDEL receptor 2

Target/Specificity
Recognizes endogenous levels of KDELR2 protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)
IF/IC~~N/A
IHC~~1:100~500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-KDELR2 Antibody - Protein Information

Name KDELR2

Synonyms ERD2.2 {ECO:0000303|PubMed:1325562}

Function
Membrane receptor that binds the K-D-E-L sequence motif in the C-terminal part of endoplasmic reticulum resident proteins and maintains their localization in that compartment by participating to their vesicle-mediated recycling back from the Golgi (PubMed:<a

href="http://www.uniprot.org/citations/1325562" target="_blank">1325562, PubMed:18086916, PubMed:33053334). Binding is pH dependent, and is optimal at pH 5-5.4 (By similarity).

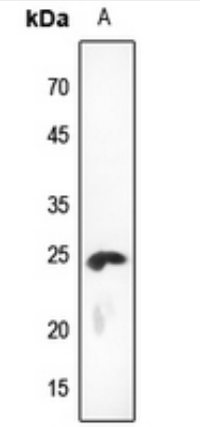
Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q5ZKX9}. Golgi apparatus membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q5ZKX9}. Cytoplasmic vesicle, COPI-coated vesicle membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q5ZKX9} Note=Localized in the Golgi in the absence of bound proteins with the sequence motif K-D-E-L. Trafficks back to the endoplasmic reticulum together with cargo proteins containing the sequence motif K-D-E-L

Anti-KDELR2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-KDELR2 Antibody - Images



Western blot analysis of KDELR2 expression in rat testis (A) whole cell lysates.

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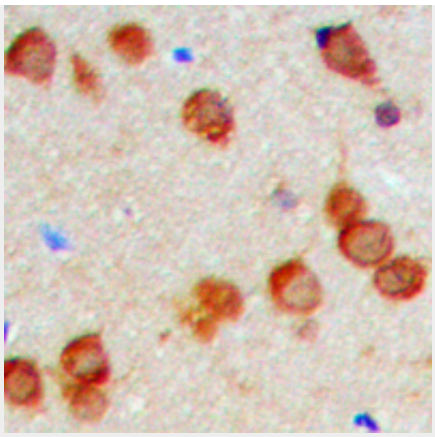
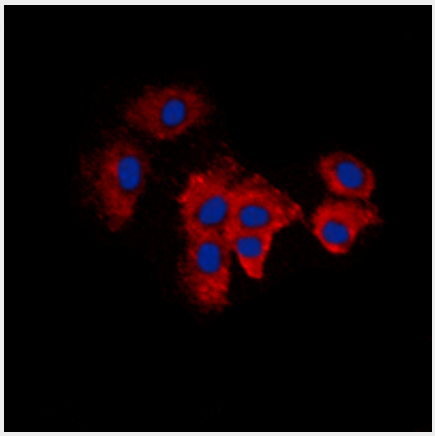


Immunohistochemical analysis of KDELR2 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of KDELR2 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Anti-KDELR2 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human KDELR2. The exact sequence is proprietary.