

**Anti-KDEL2 Antibody**  
**Rabbit polyclonal antibody to KDEL2**  
**Catalog # AP60475****Specification**

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**Anti-KDEL2 Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P33947</a>
Other Accession	<a href="#">Q9COM2</a>
Reactivity	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Bovine, SARS
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24422

**Anti-KDEL2 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 KDEL2 protein.

**Dilution**WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)  
IF~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)**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-KDEL2 Antibody - Protein Information****Name** KDEL2**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:&lt;a href="http://www.uniprot.org/citations/1325562" target="\_blank"&gt;1325562&lt;/a&gt;, PubMed:&lt;a

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

#### Cellular Location

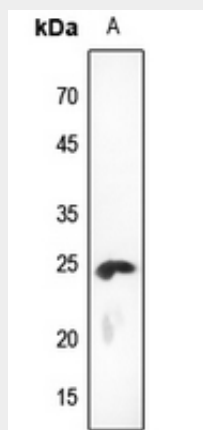
Endoplasmic reticulum membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q5ZKX9}. Golgi apparatus membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q5ZKX9}. Cytoplasmic vesicle, COPI-coated vesicle membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q5ZKX9} Note=Localized 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

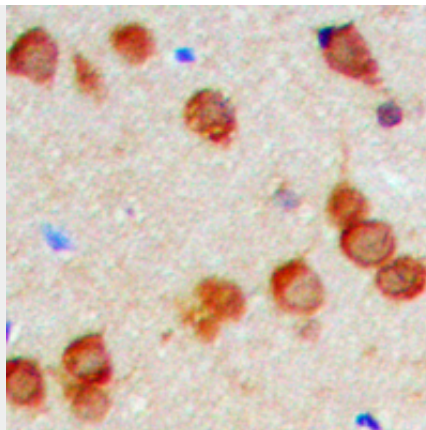
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

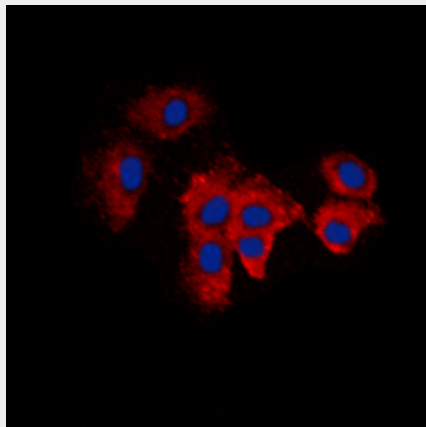
#### Anti-KDELR2 Antibody - Images



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



Immunohistochemical analysis of KDEL2 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 KDEL2 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 humidified 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-KDEL2 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human KDEL2. The exact sequence is proprietary.