

**Anti-Human/Mouse/Rat KDELR2 Polyclonal Antibody**

**Polyclonal Antibody**

**Cat.NO.: PA04661**

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3th Edition

**Description:**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. KDELR2 (KDEL Endoplasmic Reticulum Protein Retention Receptor 2) is a Protein Coding gene. Among its related pathways are Activation of cAMP-Dependent PKA and Vesicle-mediated transport. GO annotations related to this gene include ER retention sequence binding and KDEL sequence binding. An important paralog of this gene is KDELR1.

**Antigen:**Synthesized peptide derived from the Internal region of human KDEL Receptor 2

**Form:**

**How to use:**1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:**PBS (pH7.4) containing 1% BSA

**Application:**This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:**