

**Product Name: KDEL Receptor 3 Rabbit Polyclonal Antibody**  
**Catalog #: APRab12961**

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## Summary

|                        |                                            |
|------------------------|--------------------------------------------|
| <b>Production Name</b> | KDEL Receptor 3 Rabbit Polyclonal Antibody |
| <b>Description</b>     | Rabbit Polyclonal Antibody                 |
| <b>Host</b>            | Rabbit                                     |
| <b>Application</b>     | WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA            |
| <b>Reactivity</b>      | Human,Mouse                                |

## Performance

|                     |                                                                                          |
|---------------------|------------------------------------------------------------------------------------------|
| <b>Conjugation</b>  | Unconjugated                                                                             |
| <b>Modification</b> | Unmodified                                                                               |
| <b>Isotype</b>      | IgG                                                                                      |
| <b>Clonality</b>    | Polyclonal                                                                               |
| <b>Form</b>         | Liquid                                                                                   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| <b>Buffer</b>       | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.       |
| <b>Purification</b> | Affinity purification                                                                    |

## Immunogen

|                          |                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | KDEL3                                                                                                                  |
| <b>Alternative Names</b> | KDEL3; ER lumen protein retaining receptor 3; KDEL endoplasmic reticulum protein retention receptor 3; KDEL receptor 3 |
| <b>Gene ID</b>           | 11015.0                                                                                                                |
| <b>SwissProt ID</b>      | O43731.The antiserum was produced against synthesized peptide derived from human ERD23. AA range:61-110                |

## Application

|                         |                                                                              |
|-------------------------|------------------------------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200 |
| <b>Molecular Weight</b> | 28kDa                                                                        |

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## Background

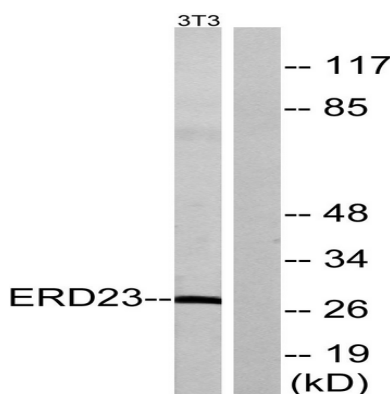
KDEL endoplasmic reticulum protein retention receptor 3(KDEL3) Homo sapiens This gene encodes a member of the KDEL endoplasmic reticulum protein retention receptor family. Retention of resident soluble proteins in the lumen of the endoplasmic reticulum (ER) is achieved in both yeast and animal cells 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. KDEL3 was the third member of the family to be identified.

Altfunction:Required for the retention of luminal endoplasmic reticulum proteins. Determines the specificity of the luminal ER protein retention system. Also required for normal vesicular traffic through the Golgi. This receptor recognizes K-D-E-L.,similarity:Belongs to the ERD2 family.,

## Research Area

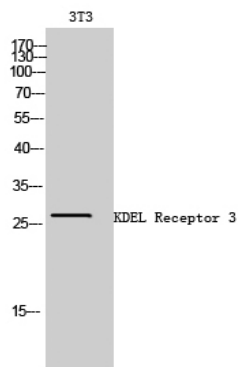
Vibrio cholerae infection;

## Image Data

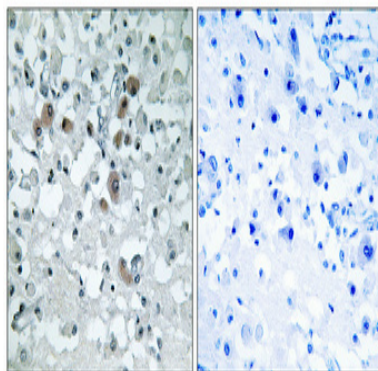


Western blot analysis of lysates from NIH/3T3 cells, using ERD23 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western Blot analysis of 3T3 cells using KDEL Receptor 3 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°, overnight) . High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

## Note

For research use only.