

KDELR Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP19130b

Specification

KDELR Antibody (C-term) - Product Information

Application Primary Accession Other Accession

Reactivity Predicted

Host Clonality Isotype Antigen Region WB,E P24390, O43731 and P33947 O42580, O8R1L4, O43731, O7ZXS5, O5U305, O9COM2, P33947, O6PEH1, O5ZKX9, O2KJ37, O569A6, O99JH8, P33946, O68ES4, O6PAB8, NP_006792.1, P24390 Human Xenopus, Bovine, Mouse, Rat, Chicken, Zebrafish Rabbit Polyclonal Rabbit IgG 185-211

KDELR Antibody (C-term) - Additional Information

Other Names

ER lumen protein-retaining receptor 1, KDEL endoplasmic reticulum protein retention receptor 1, KDEL receptor 1, Putative MAPK-activating protein PM23, KDELR1, ERD21

Target/Specificity

This KDELR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 185-211 amino acids from the C-terminal region of human KDELR1.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

KDELR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KDELR Antibody (C-term) - Protein Information



KDELR Antibody (C-term) - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

KDELR Antibody (C-term) - Images



All lanes : Anti-KDELR1 Antibody (C-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: 293 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 25 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

KDELR Antibody (C-term) - 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, which is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. The protein encoded by this gene was the first member of the family to be identified, and it encodes a protein structurally and functionally similar to the yeast ERD2 gene product.



KDELR Antibody (C-term) - References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) : Breuza, L., et al. J. Biol. Chem. 279(45):47242-47253(2004) Bard, F., et al. J. Biol. Chem. 278(47):46601-46606(2003) Yamamoto, K., et al. J. Biol. Chem. 278(36):34525-34532(2003) Matsuda, A., et al. Oncogene 22(21):3307-3318(2003)