

KDEL Receptor Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 11078

Size: 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4., 0.09% sodium azide.

SPECIFICATION SUMMARY

Antigen: Peptide corresponding to aa 192-212 of bovine KDEL receptor conjugated to KLH.

Host Species: Mouse

Subclass: IgG1

Clone Number: KR-10

BACKGROUND

KDEL receptor, an integral membrane protein, facilitates the retrieval of soluble endoplasmic reticulum (ER) luminal proteins bearing the four amino acid retention motif KDEL from the Golgi apparatus. The sequence of KDEL receptor is very similar to that of the yeast protein Erd2p, a receptor for proteins containing the tetrapeptide HDEL, the yeast ER retention signal. KDEL receptors interact with GAP (GTPase-activating protein) of ARF1, a small GTP-binding protein involved in COPI-dependent vesicle transport. KDEL receptors may recruit cytosolic ARF1 to membranes and regulate vesicle budding.

SPECIFICITY

This antibody recognizes human, monkey, mouse, rat, hamster, rabbit, porcine, bovine, ovine, canine, chicken, *Drosophila*, and *Xenopus* KDEL receptor 1.

APPLICATIONS

Western blot: Use at 1:1,000 dilution. A band of approx. 25 kDa is detected.

Immunocytochemistry: Use at 1:1,000 dilution.

Immunoprecipitation: Use at 1:500 dilution.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

Store frozen product at or below -20°C. Thawed product may be stored for 2-4 weeks at 4°C. For optimal storage, aliquot to smaller portions and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.