

KDEL polyclonal antibody

Catalog: BS90764

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Soluble proteins in the endoplasmic reticulum (ER) contain a specific carboxy terminal sequence KDEL (Lys-Asp-Glu-Leu), and include the coat proteins required for vesicle budding from the ER, proteins that form retrograde vesicles on post-ER compartments, and integral membrane proteins that target vesicles to their correct destination. The retention of these soluble proteins in the ER depends on the interaction of the KDEL sequence with the corresponding KDEL receptor, also designated ERD2, in the Golgi apparatus. When KDEL proteins reach the Golgi complex, they are recognized by the KDEL receptor and transported retrograde in COPI-coated vesicles back to the ER. The small GTPase ADP-ribosylation factor 1 (ARF1), a regulator of vesicle transport, interacts with the KDEL receptor. Subsequently, this interaction allows the KDEL receptor to recruit a GTPase-activating protein (GAP) from the cytosol to membranes, which inactivates ARF1.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

24/17 kDa(Predicted band size)

Swiss-Prot:

P24390(Human) Q99JH8(Mouse) Q569A6(Rat)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:500-1:2000

ICC:1:400-1:800

IHC:1:100-1:400

FC:1:50-1:100

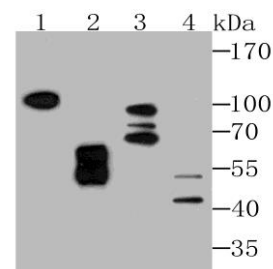
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

Specificity:

KDEL polyclonal antibody detects endogenous levels of KDEL protein.

DATA:



Western blot analysis of KDEL on different lysates using anti-KDEL antibody at 1/1,000 dilution.

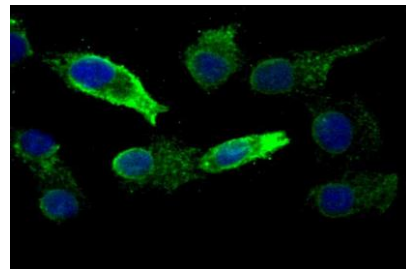
Positive control:

Lane 1: Rat testis tissue

Lane 2: Human placenta tissue

Lane 3: Mouse testis tissue

Lane 4: 293



ICC staining KDEL in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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