PRODUCT DATA SHEET

ADI-SPA-827               KDEL, mAb (10C3)

Product Number/Sizes
ADI-SPA-827-J            1 mg
ADI-SPA-827-F            200 µg
ADI-SPA-827-D            50 µg

Product Specifications
Alternative Name:                 Grp78, Grp94, Lysine-aspartic acid-glutamate-leucine
PURITY DETAIL:                    Protein G affinity purified.
FORMULATION:                      Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
CLONE:                           10C3
ISOTYPE:                          Mouse IgG2a
IMMUNOGEN:                       Synthetic peptide corresponding to aa 649-654 (S649KDEL654) of rat Grp78.
SPECIFICITY:                     Recognizes proteins containing the KDEL sequence in mammals, birds and insects, plants, and yeast. Detects a band of ~94kDa by Western blot.
APPLICATION:                    EIA
                                 Electron Microscopy
                                 Flow Cytometry
                                 Immunocytochemistry
                                 Immunofluorescence
                                 Immunohistochemistry (paraffin sections)
                                 Immunoprecipitation
                                 Western Blot (1:1000, colorimetric)
                                 Optimal conditions must be determined individually for each application.

LONG TERM STORAGE:                -20°C

Immunohistochemistry analysis of human spleen tissue stained with KDEL, mAb (10C3) at 10µg/ml.

Immunofluorescence analysis of endoplasmic reticulum staining of mouse C2C12 myoblasts transfected with wild type mouse ADAM12 using KDEL (Grp78, Grp94) mAb (10C3).
Western blot analysis: Lane 1: Grp78 (BiP) recombinant protein (Prod No. ADI-SPP-765), Lane 2: RK-13, Lane 3: Mouse liver microsomes, Lane 4: Rat liver microsomes, Lane 5: HeLa Cell Lysate (heat shocked) (Prod No. ADI-LYC-HL101).

Product Literature References

Boca, an endoplasmic reticulum protein required for wingless signaling and trafficking of LDL receptor family members in Drosophila J. Culi & R.S. Mann Cell 112 343 (2007)
Mutants of the yeast Yarrowia lipolytica defective in protein exit from the endoplasmic reticulum are also defective in peroxisome biogenesis V.I. Titorenko & R.A. Rachubinski Mol. Cell Biol. 18 2789 (1998)
The retention signal for soluble proteins of the endoplasmic reticulum H.R. Pelham Trends Biochem. Sci. 15 483 (1990)

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WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

MATERIAL SAFETY DATA: This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet.

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