QED BIOSCIENCE INC.
Advanced Research Technologies

product data sheet

KDEL Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11076-200
Size: 200ug in PBS, pH 7.2, 50% glycerol, 0.09% sodium azide.

BACKGROUND

The tetrapeptide KDEL, located at the carboxy-terminal sequences of luminal proteins, is a retrieval motif essential for the precise sorting of these proteins along the secretory pathway. KDEL proteins perform essential functions in the endoplasmic reticulum (ER) related to protein folding as well as assembly. The localization of chaperones and other soluble proteins to the ER is achieved by their continuous retrieval from post-ER compartments by the KDEL receptor which is a membrane protein localized in the Golgi apparatus.

SPECIFICATION SUMMARY

Antigen: Peptide corresponding to aa 649-654 of rat Grp78 conjugated to KLH.
Host Species: Mouse
Subclass: IgG2a
Clone Number: 10C3

DILUTION INSTRUCTIONS

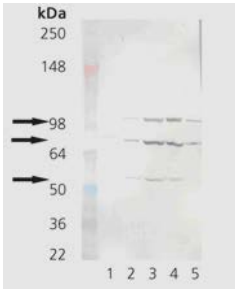
Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

Stable for at least one year at or below -20°C. Store in appropriate aliquots to avoid multiple freeze-thaw cycles.

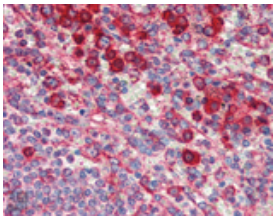
APPLICATIONS

Immunoblotting: Use at 4ug/ml. Reactivity with proteins corresponding to the apparent molecular mass of Grp78 and Grp94 in samples from mammals, birds, insects, and plants.



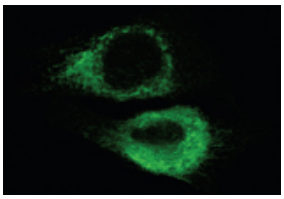
Lane 1: Grp78 (BiP) recombinant protein, Lane 2: RK-13, Lane 3: Mouse liver microsomes, Lane 4: Rat liver microsomes, Lane 5: Heat-shocked HeLa cell lysate.

Immunohistochemistry: Use at 5-10ug/ml.



Human spleen stained with #11076-200 at 10ug/ml.

Immunofluorescence:



Staining of ER in mouse C2C12 myoblasts transfected with wild-type mouse ADAM12 with #11076-200 at 10ug/ml.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

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