

Anti-HDEL Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11077 (clone 2E7)

Size: 100ug in PBS, pH 7.4, 50% glycerol, and 0.09% sodium azide purified by Protein G affinity chromatography.

BACKGROUND

The Hsp70 family includes four highly conserved proteins (Hsp70, Hsc70, Grp75, and Grp78) which function as molecular chaperones, in translocation of polypeptides across cell membranes and to cell nuclei, and in proper folding of nascent polypeptide chains. Sorting of proteins by the Hsp70 family relies on a C-terminal tetrapeptide signal, usually KDEL in animal cells, and HDEL in *S. cerevisiae*.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to the C-terminus of yeast Bip.

Host Species: Mouse

Antibody Class: IgG2b

Preservatives: 0.09% sodium azide

SPECIFICITY

This antibody recognizes a ~70 kDa protein corresponding to the predicted molecular mass of HDEL in *Drosophila*, yeast, and various plants (barnyard grass, beet, cotton, mung bean, sorghum, and wheat).

APPLICATIONS

Immunoblotting: use at 0.5-1ug/ml. A band of ~70 kDa is detected.

Immunofluorescence: use at 0.2-2ug/ml. These are recommended concentrations. User should determine optimal concentrations for their application.

Positive control: *S. cerevisiae* lysate.

DILUTION INSTRUCTIONS

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

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

PRODUCT REFERENCE

Napier RM et al. 1992 J Cell Science 102: 261-271.

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