

Product Datasheet

HDEL Antibody (RPE) (orb147726)

Catalog Number	orb147726
Category	Antibodies
Description	Mouse monoclonal to HDEL (RPE). HSP 70 family comprises four highly conserved proteins, HSP 70, HSC 70, GRP 75 and GRP 78, which serve a variety of roles. They act as molecular chaperones, facilitating the assembly of multi-protein complexes; participate in the translocation of polypeptides across cell membranes and to the nucleus; and aid in the proper folding of nascent polypeptide chains. GRP 78 is localized in the endoplasmic reticulum (ER), where it receives imported secretory proteins and is involved in the folding and translocation of nascent peptide chains. Sorting of these proteins is dependent on a C-terminal tetrapeptide signal, usually KDEL in animal cells, and HDEL in <i>S. cerevisiae</i>. The 2E7 clone recognizes the C-terminal peptide HDEL, a common version of the endoplasmic reticulum retention signal found in yeast, plant, nematode and other ER proteins. 2E7 specifically stains HDEL proteins in barnyard grass, beet, cotton, mung bean, sorghum and wheat..
Target	HDEL
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG2b
Conjugation	RPE
Reactivity	Drosophila, Plant, Saccharomyces, Yeast
Concentration	1 mg/ml
Buffer/Preservatives	95.46mM Phosphate, 2.48mM MES and 2mM EDTA
Purification	Protein G Purified

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Immunogen	Raised against a synthetic HDEL peptide corresponding to the C-terminus of yeast Bip
MW	78kDa
Tested applications	ICC, IF, WB
Dilution range	WB (1:1000), ICC/IF (1:100)
Application notes	1 µg/ml of SMC-175 was sufficient for detection of HDEL-containing proteins in 10 µg of <i>S. cerevisiae</i> lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Clone Number	20000000
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only

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