

Product Datasheet

HDEL Antibody: FITC (orb147722)

Description	Mouse monoclonal to HDEL (FITC). 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..
Species/Host	Mouse
Reactivity	Drosophila, Plant, Saccharomyces, Yeast
Conjugation	FITC
Tested Applications	ICC, IF, IHC
Immunogen	Raised against a synthetic HDEL peptide corresponding to the C-terminus of yeast Bip
Target	HDEL
Preservatives	640.91mM DMSO, 136.36mM Ethanolamine, 9.09mM Sodium Bicarbonate in 90.9% PBS
Concentration	1 mg/ml
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only

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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.
Isotype	IgG2b
Clonality	Monoclonal
Clone Number	20000000
MW	78kDa
Dilution Range	WB (1:1000), ICC/IF (1:100)
Expiration Date	12 months from date of receipt.

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