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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HDEL Antibody [2E7]

Mouse Anti-Yeast HDEL Monoclonal IgG2b
Catalog No. SMC-175

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

Overview

Product Name

HDEL Antibody

Description

Mouse Anti-Yeast HDEL Monoclonal IgG2b

Species Reactivity

Barnyard Grass (Echinochloa), Beet (Beta vulgaris), Cotton (Gossypium), Fruit Fly (Drosophila melanogaster), Grass (Sorghum), Mung Bean (Vigna radiata), Plant, Wheat (Triticum spp.), Yeast, Yeast (Saccharomyces cerevisiae)

Applications

WB, ICC/IF

Antibody Dilution

WB (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Yeast

Immunogen

Raised against a synthetic HDEL peptide corresponding to the C-terminus of yeast Bip

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

2E7

Isotype

IgG2b

Specificity

Detects ~78kDa.

Cite This Product

Mouse Anti-Yeast HDEL Monoclonal, Clone 2E7 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-175)

Certificate Of Analysis

1 µg/ml of SMC-175 was sufficient for detection of HDEL-containing proteins in 10 µg of S. cerevisiae lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

H-D-E-L (his-asp-glu-leu) Antibody, endoplasmic reticulum Antibody, luminal ER protein retention Antibody, KDELR1 Antibody, Endoplasmic reticulum retention signal Antibody

Research Areas

Cancer, Heat Shock, Cell Signaling, Trafficking

Cellular Localization

Endoplasmic Reticulum

Scientific Background

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 (1, 2). 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 (2). Sorting of these proteins is dependent on a C-terminal tetrapeptide signal, usually KDEL in animal cells, and HDEL in S.cerevisiae (3). 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 (4).

References

1. Mayer M.P., and Bukau B. (2005) Cell Mol Life Sci. 62(6): 670-684.
2. Luo S., Mao C., Lee B., and Lee A.S. (2006) Mol Cell Biol. 26(15): 5688-5697.
3. Entrez Gene: HDEL, Gene ID: 10945
4. Napier R.M., et al. (1992) J Cell Sci. 102: 261-271.

Product Images

Currently there are no images for this product

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.