Datasheet for ABIN7540480

anti-KDELR1 antibody (C-Term)

Go to Product page

Overview

Quantity:	100 µg
Target:	KDELR1
Binding Specificity:	C-Term
Reactivity:	Saccharomyces cerevisiae
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KDELR1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	HDEL Antibody
Immunogen:	HDEL Antibody was produced in mice by repeated immunizations raised against a synthetic HDEL synthetic peptide corresponding to the C-terminus of yeast Bip.
Clone:	2E7
Isotype:	IgG2b
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with HDEL from Drosophilia, yeast, Saccharomyce, and Plants (Barnyard grass, beet, cotton, mung bean, sorghum, wheat) based on 100 % homology with the immunizing sequence.
Purification:	Anti-HDEL Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target:	KDELR1
Alternative Name:	ERD2 (KDELR1 Products)
Background:	H-D-E-L, endoplasmic reticulum, luminal ER protein retention,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 S.cerevisiae. 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.
Pathways:	Maintenance of Protein Location

Application Details

Application Notes:	IF_Microscopy_Dilution: 1:50-1:500 Western_Blot_Dilution: 1:1000-1:2000
Comment:	Anti-HDEL Antibody is tested for use in WB and IF microscopy. Expect a band approximately ~78kDa corresponding to specific lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months