

Datasheet for 200-301-F44**HDEL Antibody****Overview**

Description:	Anti-HDEL (MOUSE) Monoclonal Antibody - 200-301-F44
Item No.:	200-301-F44
Size:	100 µg
Applications:	IF, WB
Reactivity:	D. melanogaster, Plants, Saccharomyces, Yeast
Host Species:	Mouse

Product Details**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. 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.

Synonyms:	H-D-E-L, endoplasmic reticulum, luminal ER protein retention
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	2E7
Format:	IgG2b

Target Details

Gene Name:	ERD2
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Reactivity:	D. melanogaster, Plants, Saccharomyces, Yeast
Immunogen Type:	Conjugated Peptide
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.
Purity/Specificity:	Anti-HDEL Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with HDEL from Drosophila, yeast, Saccharomyces, and Plants (Barnyard grass, beet, cotton, mung bean, sorghum, wheat) based on 100% homology with the immunizing sequence. Cross-reactivity with HDEL from other sources has not been determined. Heat Shock and trafficking research.

Application Details

Tested Applications:	IF, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:50-1:500
WB:	1:1000-1:2000

Formulation

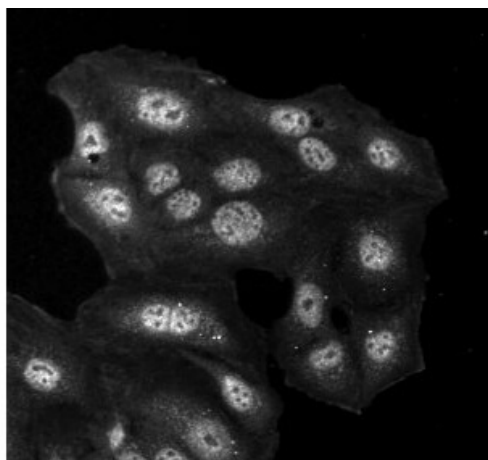
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of mouse anti-HDEL antibody.

Tissue: human keratinocyte line, HaCat. Primary Antibody:

HDEL antibody at 1ug/ml for 1h at RT. Secondary antibody:

Peroxidase mouse secondary at 1:10,000 for 45 min at RT.

Localization: membrane.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.