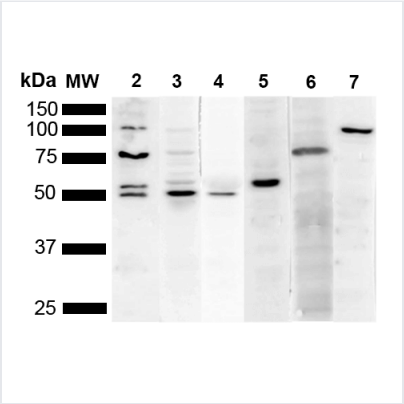
KDEL Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	KDEL, Monoclonal Antibody
Full Product Name	KDEL Antibody, Clone 2C1: ATTO 390
Product Gene Name	anti-KDEL antibody
Product Synonym Names	Mouse Anti-KDEL Monoclonal IgG1; KDEL Antibody: ATTO 390; KDEL Antibody; Lys Asp Glu Leu Antibody; Lys-Asp-Glu-Leu (KDEL) Antibody; Lys-Asp-Glu-Leu Antibody; Lysine-aspartic acid-glutamate-leucine Antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2C1
Host	Mouse
Species Reactivity	Human; Mouse; Rat
Purity/Purification	Protein G Purified
Concentration	1 mg/ml (lot specific)
Specificity	Detects KDEL tagged proteins.
Preparation and Storage	Store at -20 degree C.
Matching Pairs	Unconjugated Antibody: KDEL Clone #2C1 (MBS809078) ATTO 390 Conjugated Antibody: KDEL Clone #2C1 (MBS809079)
Matching Pairs	Unconjugated Antibody: N/A (MBS809079) ATTO 390 Conjugated Antibody: KDEL Clone #2C1 (MBS809079)
Target	KDEL
Immunogen	KDEL peptide (C-AVKDEL-COOH) conjugated at the N-terminal to Bovine Serum Albumin (BSA)
Conjugate	ATTO 390
Storage Buffer	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Product Categories/Family for anti-KDEL antibody	Antibodies; Cell Signaling; Tags and Cell Markers; Organelle Markers; Protein Trafficking; Chaperone Proteins
Applications Tested/Suitable for anti-KDEL antibody	Western Blot (WB)
Application Notes for anti-KDEL antibody	WB: 1:1000
Related Product Information for anti-KDEL antibody	The endoplasmic reticulum is part of a protein sorting pathway, or in essence, the transportation system of the eukaryotic cell. The majority of endoplasmic reticulum resident proteins are retained in the endoplasmic reticulum through a retention motif. This motif is composed of four amino acids at the C-terminal end of the protein sequence. The most common retention sequence is KDEL (lys-asp-glu-leu). Grp78 and Grp94 and PDI all share the C-terminal KDEL sequence. The presence of carboxy-terminal KDEL appears to be necessary for ER retention and appears to be sufficient to reduce the secretion of proteins from the ER.
Product References and Citations for anti-KDEL antibody	1. Ozawa K., et al. (2008) Mol Pharmacol. 74:1610. 2. Austin R.C., et al. (2003) J Biol Chem. 278: 17438.

Other Notes	Small volumes of anti-KDEL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KDEL purchase	MBS809079 is an antibody targeting KDEL. Also known as KDEL Antibody, Clone 2C1: ATTO 390. Reactive in Human; Mouse; Rat. Host: Mouse.



Western Blot (WB) of anti-KDEL antibody
Western Blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of Multiple KDEL protein using Mouse Anti-KDEL Monoclonal Antibody, Clone 2C1. Lane 1: Molecular Weight Ladder (MW). Lane 2: Anti-KDEL. Lane 3: Anti-KDEL control (SPC-109). Lane 4: Anti-PDI control (SPC-114). Lane 5: Anti-Calreticulin control (SPC-122). Lane 6: Anti-GRP78 control (SPC-107). Lane 7: Anti-GRP94 control (SPC-101). Load: 10 ug. Block: 5% Skim Milk powder in TBST. Primary Antibody: Mouse Anti-KDEL Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG:HRP at 1:5000 for 1 hour at RT. Color Development: ECL solution for 5 min in RT. Predicted/Observed Size: Multiple.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KDEL. It may not necessarily be applicable to this product.

Protein Family	KDEL motif-containing protein
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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