Product Datasheet

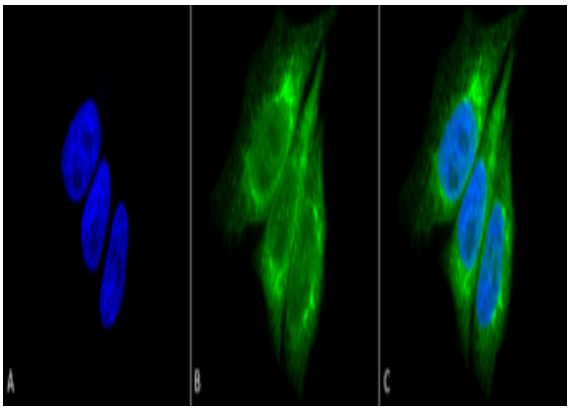
KDEL Antibody (APC) (orb151342)

Catalog Number	orb151342
Category	Antibodies
Description	Rabbit polyclonal to KDEL (APC). 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..
Target	KDEL
Clonality	Polyclonal
Species/Host	Rabbit
Conjugation	APC
Reactivity	Human, Mouse, Rat
Concentration	1 mg/ml
Buffer/Preservatives	95.46mM Phosphate, 2.48mM MES and 2mM EDTA
Purification	Protein A Purified
Immunogen	KDEL containing peptide immunogen
Tested applications	ICC, IF, IHC, WB
Dilution range	WB (1:1000), ICC/IF (1:100)

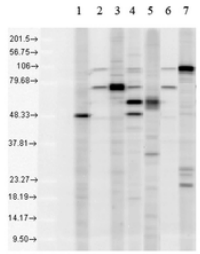
Biorbyt Ltd.
7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC
68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

Application notes	A 1:1000 dilution was sufficient for detection of KDEL-containing proteins in 20 µg of HeLa cell lysate by ECL immunoblot analysis using goat anti-mouse IgG as the secondary.
Specificity	Detects KDEL proteins, GRP94, Grp78, PDI and calreticulin. It may also see ERp57 and ERp29.
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Expiration Date	12 months from date of receipt.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-KDEL Polyclonal Antibody. Tissue: Heat Shocked Cervical cancer cell line (HeLa). Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-KDEL Polyclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-KDEL Antibody. (C) Composite. Heat Shocked at 42°C for 30 min.

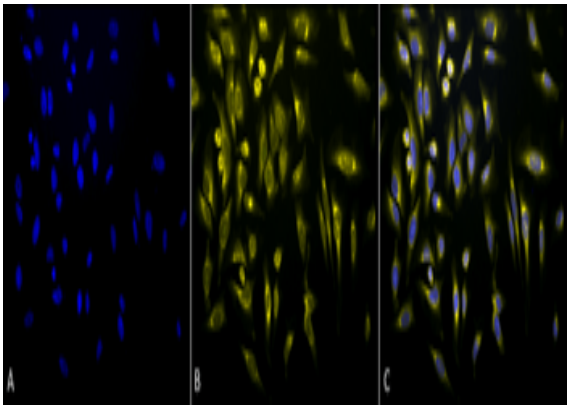


1. PDI control antibody
2. KDEL control antibody clone 10C3
3. Grp78 control antibody
4. this product
5. Calreticulin control antibody
6. KDEL control antibody clone10C3
7. Grp94 contol antibody
Mixed human cell lysate (300ug/gel); 1/1000 dilutions;
KDEL(10C3) control antibody 1:500 dilution

Western blot analysis of Human Cell line lysates showing detection of KDEL protein using Rabbit Anti-KDEL Polyclonal Antibody. Primary Antibody: Rabbit Anti-KDEL Polyclonal Antibody at 1:1000, 1:500.

Biorbyt Ltd.
7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC
68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-KDEL Polyclonal Antibody. Tissue: Heat Shocked Cervical cancer cell line (HeLa). Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-KDEL Polyclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: R-PE Goat Anti-Rabbit (yellow) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-KDEL Antibody. (C) Composite. Heat Shocked at 42°C for 30 min.

Biorbyt Ltd.
7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC
68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558