

## Product Datasheet

### KDEL Antibody: APC (orb151342)

<b>Description</b>	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-asg-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..
<b>Species/Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Conjugation</b>	APC
<b>Tested Applications</b>	ICC, IF, IHC
<b>Immunogen</b>	KDEL containing peptide immunogen
<b>Target</b>	KDEL
<b>Preservatives</b>	95.64mM Phosphate, 2.48mM MES and 2mM EDTA
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Conjugated antibodies should be stored according to the product label
<b>Note</b>	For research use only
<b>Application notes</b>	A 1:1000 dilution of SPC-109 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.
<b>Clonality</b>	Polyclonal
<b>Dilution Range</b>	WB (1:1000), ICC/IF (1:100)

#### Biorbyt Ltd.

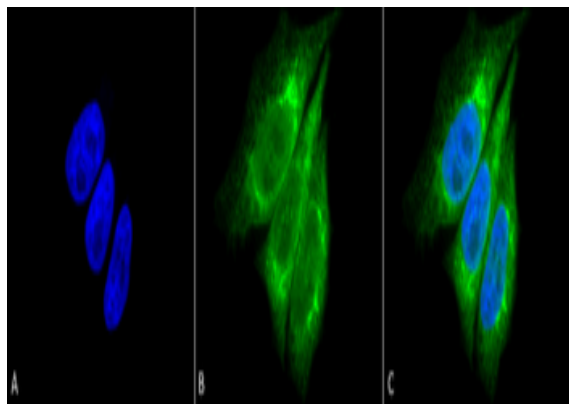
7 Signet Court, Swann's Road,  
Cambridge, CB5 8LA, United Kingdom  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\) 1223 859-353](tel:+441223859353) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)

#### Biorbyt LLC.

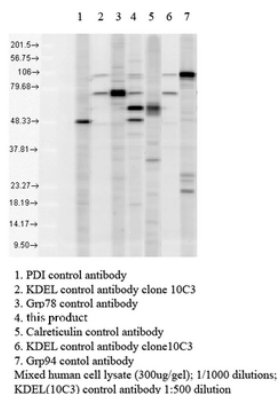
68 TW Alexander Drive,  
Durham, NC, 27713, United States  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+14159065211) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)

**Expiration Date**

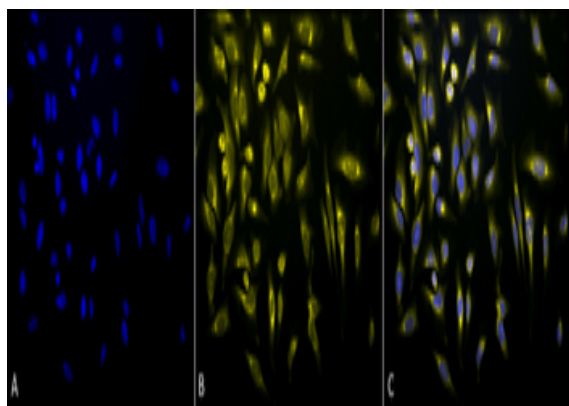
12 months from date of receipt.



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.



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.



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's Road,  
Cambridge, CB5 8LA, United Kingdom  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\) 1223 859-353](tel:+4401223859353) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)

**Biorbyt LLC.**

68 TW Alexander Drive,  
Durham, NC, 27713, United States  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+14159065211) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)