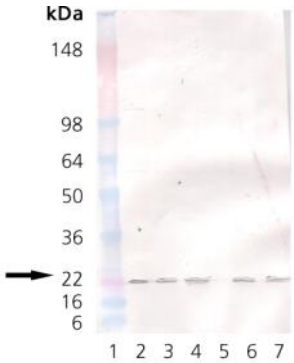
KDEL Receptor Monoclonal Antibody (KR-10)

Product Specifications

Catalog Number:	VAA-PT048
Source:	Mouse
Isotype:	IgG_1
Species Reactivity:	Human, mouse and rat Other species not tested.
Applications:	WB[6]: 1:250 (Colorimetric) Other applications not tested. *The optimal dilution for a specific application must be determined by the investigator*
Predicted M.W.:	~23 kDa
Concentration:	See product label
Purification:	None
Format:	Mouse ascites fluid with 0.09% azide
Storage:	Store at -20°C *Shipping conditions may differ from the recommended storage temperature*
Immunogen:	Synthetic peptide derived from the sequence of bovine KDEL Receptor[1], conjugated to KLH[5]

Related Products:

LYC-HL101	HeLa Cell Lysate (Heat Shocked)
LYC-3T100	3T3 Cell Lysate
LYC-PC100	PC-12 Cell Lysate
LYC-3T101	3T3 Cell Lysate (Heat Shocked)
LYC-PC101	PC-12 Cell Lysate (Heat Shocked)
SAB-101	Goat anti-Mouse IgG Polyclonal Antibody, AP Conjugate
SPA-827	KDEL (Grp78, Grp94) Monoclonal Antibody (10C3)



Western Blot Analysis: Lane 1: MWM, Lane 2: 20 µg of HeLa cell lysate (heat shocked), Lane 3: 20 µg of 3T3 cell lysate, Lane 4: 20 µg of PC-12 cell lysate, Lane 5: 20 µg of CHO-K1 cell lysate, Lane 6: 20 µg of 3T3 cell lysate (heat shocked), Lane 7: 20 µg of PC-12 cell lysate (heat shocked) probed with KDEL Receptor Monoclonal Antibody at 1:250.

Background:

KDEL receptor, a 26 kDa integral membrane protein, facilitates the retrieval of soluble ER luminal proteins bearing the tetrapeptide, KDEL, from the Golgi apparatus[2,3]. KDEL receptor exhibits extensive sequence identity to yeast protein Erd2p, a receptor for proteins containing the tetrapeptide HDEL, the yeast ER retention signal[2,3]. KDEL receptor is localized to the cis Golgi and the intermediate compartments[3]. KDEL receptor interacts with the GTPase-activating protein (GAP) of ARF1, a small GTP-binding protein involved in COPI-dependent vesicle transport[4]. KDEL receptor may recruit cytosolic ARF1 to membranes and regulate vesicle budding[4].

References:

1. Tang, B.L., *et al*. (1994) Eur J Cell Biol. **65**, 298-304.
2. Lewis, M.J. and Pelham, H.R. (1990) Nature **348**, 162-163.
3. Tang, B.L., *et al*. (1993) J Cell Biol. **120**, 325-328.
4. Aoe, T., *et al*. (1997) EMBO J. **16**, 7305-7316.
5. Tang, B.L. (1994) Eur J Cell Biol. **65**, 298-304.
6. Holappa, K., *et al*. (2004) FEBS Lett **564**, 97-103.

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