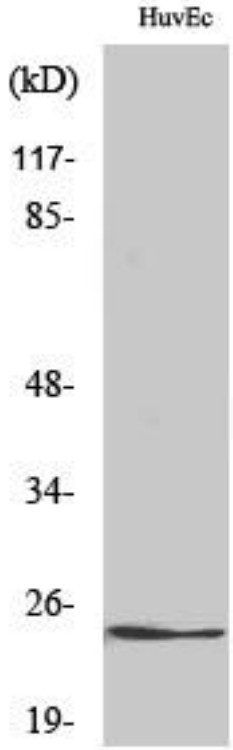
KDEL Receptor 2 Monoclonal Antibody

Catalog No	BYmab-13385
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	KDELR2
Protein Name	ER lumen protein retaining receptor 2
Immunogen	The antiserum was produced against synthesized peptide derived from human ERD22. AA range:81-130
Specificity	KDEL Receptor 2 Monoclonal Antibody detects endogenous levels of KDEL Receptor 2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KDELR2; ERD2.2; ER lumen protein retaining receptor 2; ERD2-like protein 1; ELP-1; KDEL endoplasmic reticulum protein retention receptor 2; KDEL receptor 2
Observed Band	24kD
Cell Pathway	Endoplasmic reticulum membrane ; Multi-pass membrane protein . Golgi apparatus membrane ; Multi-pass membrane protein . Cytoplasmic vesicle, COPI-coated vesicle membrane ; Multi-pass membrane protein . Localized in the Golgi in the absence of bound proteins with the sequence motif K-D-E-L. Trafficks back to the endoplasmic reticulum together with cargo proteins containing the sequence motif K-D-E-L. .
Tissue Specificity	Brain,Placenta,Skin,Testis,Uterus,
Function	function:Required for the retention of luminal endoplasmic reticulum proteins. Determines the specificity of the luminal ER protein retention system. Also required for normal vesicular traffic through the Golgi. This receptor recognizes K-D-E-L.,similarity:Belongs to the ERD2 family.,

Background	KDEL endoplasmic reticulum protein retention receptor 2(KDELR2) Homo sapiens Retention of resident soluble proteins in the lumen of the endoplasmic reticulum (ER) is achieved in both yeast and animal cells by their continual retrieval from the cis-Golgi, or a pre-Golgi compartment. Sorting of these proteins is dependent on a C-terminal tetrapeptide signal, usually lys-asp-glu-leu (KDEL) in animal cells, and his-asp-glu-leu (HDEL) in S. cerevisiae. This process is mediated by a receptor that recognizes, and binds the tetrapeptide-containing protein, and returns it to the ER. In yeast, the sorting receptor encoded by a single gene, ERD2, is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. KDELR2 was the second member of the family to be identified, and it encodes a protein which is 83% identical to the KDELR1 gene product. Alternative splicing r
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using KDEL Receptor 2 Monoclonal Antibody