

KDEL Recombinant Rabbit mAb

Catalog # AP100006

Product Information

Application	WB
Primary Accession	Q6UW63
Other Accession	Q6UW63
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	58043
Physical State	Liquid
Immunogen	A synthesized peptide derived from KDEL
Epitope Specificity	KDEL
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the KDELC family. Contains 1 filamin repeat.
SUBUNIT	Interacts with DNAJC1 (via J domain). Component of an EIF2 complex at least composed of CELF1/CUGBP1, CALR, CALR3, EIF2S1, EIF2S2, HSP90B1 and HSPA5. Part a large chaperone multiprotein complex comprising DNAJB1, HSP90B1, HSPA5, HYOU, PDIA2, PDIA4, PDIA6, PPIB, SDF2L1, UGT1A1 and very small amounts of ERP29, but not, or at very low levels, CALR nor CANX. Interacts with TMEM132A and TRIM21. May form a complex with ERLEC1, OS9, SEL1L and SYVN1.
Post-translational modifications	N-glycosylated.
DISEASE	Note=Autoantigen in rheumatoid arthritis.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The C-terminal sequence motif K-D-E-L that is present on endoplasmic reticulum resident proteins and that mediates their recycling from the Golgi back to the endoplasmic reticulum.

Additional Information

Gene ID	79070
Other Names	PLGT2_HUMAN; POGLUT2; Endoplasmic reticulum resident protein 58 (ER protein 58 ERp58); KDEL motif-containing protein 1; Protein O-xylosyltransferase POGLUT2; 2.4.1.-; EP58; KDELC1; PLGT2_MOUSE; B5DFA5_RAT; protein O-glucosyltransferase 2; KDEL (Lys-Asp-Glu-Leu) containing 1; KDEL motif containing 1
Dilution	WB=1:500-2000,ICC/IF=1:50-200,Flow-Cyt=1:50-100

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	POGLUT2 {ECO:0000303 PubMed:30127001, ECO:0000312 HGNC:HGNC:19350}
Function	Protein glucosyltransferase that catalyzes the transfer of glucose from UDP-glucose to a serine residue within the consensus sequence peptide C-X-N-T-X-G-S-F-X-C (PubMed: 30127001). Can also catalyze the transfer of xylose from UDP-xylose but less efficiently (PubMed: 30127001). Specifically targets extracellular EGF repeats of proteins such as NOTCH1, NOTCH3, FBN1, FBN2 and LTBP1 (PubMed: 30127001 , PubMed: 34411563). May regulate the transport of NOTCH1 and NOTCH3 to the plasma membrane and thereby the Notch signaling pathway (PubMed: 30127001).
Cellular Location	Endoplasmic reticulum lumen {ECO:0000255 PROSITE- ProRule:PRU10138}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.