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OS9 Antibody

Rabbit mAb
Catalog # AP91885

Product Information

Application	WB, IHC, IF, ICC, IP, IHF
Primary Accession	Q13438
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	ERLEC2; Os9;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	75562

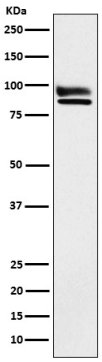
Additional Information

Dilution	WB 1:1000~1:5000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human OS9
Description	Lectin which functions in endoplasmic reticulum (ER) quality control and ER-associated degradation (ERAD).
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	OS9
Function	Lectin component of the HRD1 complex, which functions in endoplasmic reticulum (ER) quality control and ER-associated degradation (ERAD) (PubMed:18264092, PubMed:18417469, PubMed:19084021, PubMed:19346256, PubMed:21172656, PubMed:24899641). Specifically recognizes and binds improperly folded glycoproteins as well as hyperglycosylated proteins, retain them in the ER, and transfers them to the ubiquitination machinery and promote their degradation (PubMed:18264092, PubMed:18417469, PubMed:19084021, PubMed:19346256, PubMed:21172656, PubMed:24899641). Possible targets include TRPV4 as well as hyperglycosylated HSP90B1 (PubMed:17932042).
Cellular Location	Endoplasmic reticulum lumen
Tissue Location	Ubiquitously expressed (PubMed:8634085). Found as well in all tumor cell lines analyzed, amplified in sarcomas (PubMed:8634085). Highly expressed in osteosarcoma SJSA-1 and rhabdomyosarcoma Rh30 cell lines (PubMed:8634085)

Images



Western blot analysis of OS9 expression in HeLa cell lysate.