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OS9 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58344

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q13438
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75562
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human OS9
Epitope Specificity	101-200/667
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	ndoplasmic reticulum lumen.
SIMILARITY	Belongs to the OS-9 family. Contains 1 PRKCSH domain.
SUBUNIT	Probably part of the HRD1 ubiquitin ligase complex composed at least of SYVN1/HRD1 and SEL1L with which it interacts directly. Through this complex it may interact with ERLEC1 and HSPA5. Interacts with DERL2. Interacts with HSP90B1 and CREB3.
Post-translational modifications	Intramolecular disulfide bonds. Isoform 1 and isoform 2 are N-glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Lectin which functions in endoplasmic reticulum (ER) quality control and ER-associated degradation (ERAD). May bind terminally misfolded non-glycosylated proteins as well as improperly folded glycoproteins, retain them in the ER, and possibly transfer them to the ubiquitination machinery and promote their degradation. Possible targets include TRPV4.

Additional Information

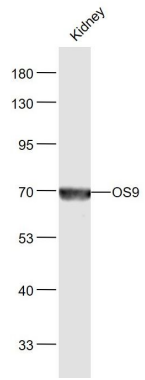
Gene ID	10956
Other Names	Protein OS-9, Amplified in osteosarcoma 9, OS9
Target/Specificity	Ubiquitously expressed. Found as well in all tumor cell lines analyzed, amplified in sarcomas. Highly expressed in osteosarcoma SJSA-1 and rhabdomyosarcoma Rh30 cell lines. Isoform 2 is the major isoform detected in all cell types examined.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

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



Sample:
Kidney (Mouse) Lysate at 40 ug
Primary: Anti-OS9 (bs-5901CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 76 kD
Observed band size: 70 kD