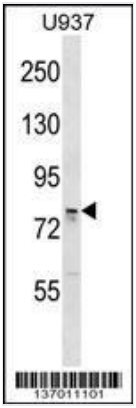
OS9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OS9, Polyclonal Antibody
Full Product Name	OS9, CT (OS9, Protein OS-9, Amplified in osteosarcoma 9) (AP)
Product Gene Name	anti-OS9 antibody
Product Synonym Names	OS9; Protein OS-9; Amplified in osteosarcoma 9
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	609677
3D Structure	ModBase 3D Structure for Q13438
Immunogen	OS9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 520-549 amino acids from the C-terminal region of human OS9.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-OS9 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-OS9 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-OS9 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-OS9 antibody	This gene encodes a protein that is highly expressed in osteosarcomas. This protein binds to the hypoxia-inducible factor 1 (HIF-1), a key regulator of the hypoxic response and angiogenesis, and promotes the degradation of one of its subunits. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Product References and Citations for anti-OS9 antibody	Feng, T., et al. Hum. Genet. 128(3):269-280(2010). Mikami, K., et al. Glycobiology 20(3):310-321(2010). Hosokawa, N., et al. J. Biol. Chem. 284(25):17061-17068(2009). Jansen, B.J., et al. Mol. Immunol. 46(4):505-515(2009). Alcock, F., et al. J. Mol. Biol. 385(4):1032-1042(2009).
Other Notes	Small volumes of anti-OS9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for OS9 purchase	MBS6329669 is an antibody targeting OS9. Also known as OS9, CT (OS9, Protein OS-9, Amplified in osteosarcoma 9) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-OS9 antibody
OS9 Antibody (C-term) western blot analysis in U937 cell line lysates (35ug/lane).This demonstrates the OS9 antibody detected the OS9 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OS9. It may not necessarily be applicable to this product.

NCBI GI #	63252870
NCBI GeneID	10956
NCBI Accession #	NP_001017958.1
NCBI Related Accession #	NP_006803.1
UniProt Primary Accession #	Q13438
UniProt Related Accession #	Q13438
GenBank Nucleotide #	NP_001017958.1
NCBI Official Full Name	protein OS-9 isoform 4
NCBI Official Synonym Full Names	OS9 endoplasmic reticulum lectin
NCBI Official Symbol	OS9
NCBI Official Synonym Symbols	OS-9; ERLEC2
UniProt Protein Name	Protein OS-9
UniProt Synonym Protein Names	Amplified in osteosarcoma 9
Protein Family	Protein
UniProt Gene Name	OS9
UniProt Entry Name	OS9_HUMAN
NCBI Protein Information	protein OS-9

UniProt Comments for OS9	OS9: 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. Belongs to the OS-9 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Endoplasmic reticulum Chromosomal Location of Human Ortholog: 12q13 Cellular Component: endoplasmic reticulum lumen Molecular Function: protein binding; protease binding; glycoprotein binding; carbohydrate binding Biological Process: ER-associated protein catabolic process; protein ubiquitination during ubiquitin-dependent protein catabolic process; protein ubiquitination; protein retention in ER; protein targeting
Research Articles on OS9	**1.** The relative expression of OS9 and XTP3B and the distribution of glycan and non-glycan degrons within the same protein contribute to the fidelity.
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