SP7 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SP7, Monoclonal Antibody
Full Product Name	SP7 (Sp7 Transcription Factor, MGC126598, OSX, osterix) (PE)
Product Gene Name	anti-SP7 antibody
Product Synonym Names	Sp7 Transcription Factor; MGC126598; OSX; osterix
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1C11
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified
Specificity	Recognizes SP7.
Preparation and Storage	Store product at 4 degree C in the dark. 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. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	45kDa
OMIM	AF466179 mRNA
3D Structure	ModBase 3D Structure for Q8TDD2
Immunogen	SP7 (NP_690599, 87aa-162aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GYANDYPPFSHSFPGPTGTQDPGLLVPKGHSSSDCLPSVYTSLDMTHPYGSWYKAGIHAGISPGPGNTPTPWWDMH
Conjugate	PE
Product Categories/Family for anti-SP7 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-SP7 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-SP7 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SP7 antibody	SP7 is a C2H2-type zinc finger transcription factor of the SP gene family and a putative master regulator of bone cell differentiation (Gao et al., 2004 [PubMed 15474293]). [supplied by OMIM]
Other Notes	Small volumes of anti-SP7 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 SP7 purchase	MBS6185910 is an antibody targeting SP7. Also known as SP7 (Sp7 Transcription Factor, MGC126598, OSX, osterix) (PE). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SP7. It may not necessarily be applicable to this product.

NCBI GI #	22902136
NCBI GeneID	121340
NCBI Accession #	NP_690599
UniProt Primary Accession #	Q8TDD2
UniProt Related Accession #	Q8TDD2
GenBank Nucleotide #	NM_152860
NCBI Official Full Name	transcription factor Sp7 isoform a
NCBI Official Synonym Full Names	Sp7 transcription factor
NCBI Official Symbol	SP7
NCBI Official Synonym Symbols	OSX; OI11; OI12; osterix
UniProt Protein Name	Transcription factor Sp7
UniProt Synonym Protein Names	Zinc finger protein osterix
Protein Family	Serine protease
UniProt Gene Name	SP7
UniProt Synonym Gene Names	OSX
NCBI Protein Information	transcription factor Sp7
NCBI Summary for SP7	This gene encodes a member of the Sp subfamily of Sp/XKLF transcription factors. Sp family proteins are sequence-specific DNA-binding proteins characterized by an amino-terminal trans-activation domain and three carboxy-terminal zinc finger motifs. This protein is a bone specific transcription factor and is required for osteoblast differentiation and bone formation.[provided by RefSeq, Jul 2010]
UniProt Comments for SP7	Transcriptional activator essential for osteoblast differentiation. Binds to SP1 and EKLF consensus sequences and to other G/C-rich sequences ().
Research Articles on SP7	**1.** Overexpression of Runx2 gene was beneficial for osteogenic differentiation of HUVECs, while overexpression of osterix gene did not show osteogenic differential potential.
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