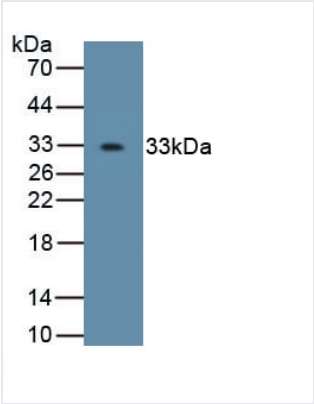
Osterix (OSX) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Osterix (OSX), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Osterix (OSX)
Product Gene Name	anti-OSX antibody
Product Synonym Names	Sp7 Transcription Factor; Specificity Protein 7; Zinc finger protein osterix
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	500ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against OSX. It has been selected for its ability to recognize OSX in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: OSX (MBS2112519) Biotin Conjugated Antibody: OSX (MBS2113789)
Matching Pairs	Unconjugated Antibody: OSX (MBS2112519) FITC Conjugated Antibody: OSX (MBS2115102)
Matching Pairs	Unconjugated Antibody: OSX (MBS2112519) HRP Conjugated Antibody: OSX (MBS2116445)
Matching Pairs	Unconjugated Antibody: OSX (MBS2112519) APC-CY7 Conjugated Antibody: OSX (MBS2117789)
Matching Pairs	Unconjugated Antibody: OSX (MBS2112519) PE Conjugated Antibody: OSX (MBS2119133)
Matching Pairs	Unconjugated Antibody: OSX (MBS2112519) APC Conjugated Antibody: OSX (MBS2120477)
Matching Pairs	Unconjugated Antibody: OSX (MBS2112519) Cy3 Conjugated Antibody: OSX (MBS2121964)
Molecular Weight	43,092 Da
OMIM	AF466179 mRNA
3D Structure	ModBase 3D Structure for Q8TDD2
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Cross Reactivity	Human

Conjugation	None
Product Categories/Family for anti-OSX antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-OSX antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-OSX antibody	WB: 0.5-2ug/mL IHC: 5-20ug/mL ICC: 5-20ug/mL
Related Product Information for anti-OSX antibody	MBS2112519 is an antibody targeting OSX. Also known as Polyclonal Antibody to Osterix (OSX). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-OSX 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.



Western Blot (WB) of anti-OSX antibody
Western Blot; Sample: Recombinant OSX, Human.

ADDITIONAL DETAILS

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

NCBI GI #	291045138
NCBI GeneID	121340
NCBI Accession #	NP_001166938.1
UniProt Primary Accession #	Q8TDD2
UniProt Secondary Accession #	Q3MJ72; Q7Z718; B3KY26
UniProt Related Accession #	Q8TDD2
GenBank Nucleotide #	NM_001173467.2
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

UniProt Gene Name	SP7
UniProt Synonym Gene Names	OSX
NCBI Protein Information	transcription factor Sp7
NCBI Summary for OSX	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 OSX	Transcriptional activator essential for osteoblast differentiation. Binds to SP1 and EKLF consensus sequences and to other G/C-rich sequences ().
Research Articles on OSX	**1.** Preameloblast-Derived Factors Mediate Osteoblast Differentiation of Human Bone Marrow Mesenchymal Stem Cells by Runx2-Osterix-BSP Signaling.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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