

SP7 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SP7. Catalog # AT4011a

Product Information

Application WB, IF, E
Primary Accession Q8TDD2
Other Accession NM_152860
Reactivity Human
Host mouse
Clonality monoclonal
Isotype IgG2a Kappa

Clone Names 2G6 Calculated MW 44994

Additional Information

Gene ID 121340

Other Names Transcription factor Sp7, Zinc finger protein osterix, SP7, OSX

Target/Specificity SP7 (NP_690599, 87 a.a. ~ 162 a.a) partial recombinant protein with GST tag.

MW of the GST tag alone is 26 KDa.

Dilution WB~~1:500~1000 IF~~1:50~200 E~~N/A

Format Clear, colorless solution in phosphate buffered saline, pH 7.2.

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions SP7 Antibody (monoclonal) (M01) is for research use only and not for use in

diagnostic or therapeutic procedures.

Background

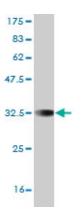
This gene encodes a member of the Sp subfamily of Sp/XKLF transcription factors. Sp family proteins are sequence-specific DNA-binding proteins characterized by an amino-terminal trans-activation domain and three carboxy-terminal zinc finger motifs. This protein is a bone specific transcription factor and is required for osteoblast differentiation and bone formation.

References

Identification of a frameshift mutation in Osterix in a patient with recessive osteogenesis imperfecta. Lapunzina P, et al. Am J Hum Genet, 2010 Jul 9. PMID 20579626.Replication of previous genome-wide association studies of bone mineral density in premenopausal American women. Ichikawa S, et al. J Bone

Miner Res, 2010 Aug. PMID 20200978.Regulation of the osteoblast-specific transcription factor Osterix by NO66, a Jumonji family histone demethylase. Sinha KM, et al. EMBO J, 2010 Jan 6. PMID 19927124.Twenty bone-mineral-density loci identified by large-scale meta-analysis of genome-wide association studies. Rivadeneira F, et al. Nat Genet, 2009 Nov. PMID 19801982.High-density association study of 383 candidate genes for volumetric BMD at the femoral neck and lumbar spine among older men. Yerges LM, et al. J Bone Miner Res, 2009 Dec. PMID 19453261.

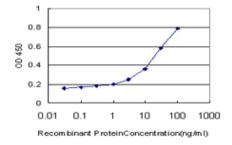
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (34.1 KDa) .



Immunofluorescence of monoclonal antibody to SP7 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged SP7 is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.