10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SP7 Antibody (monoclonal) (M01)

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

Specification

SP7 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, E**
Primary Accession	Q8TDD2
Other Accession	NM_152860
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**44994**

SP7 Antibody (monoclonal) (M01) - 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

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.

SP7 Antibody (monoclonal) (M01) - Protocols

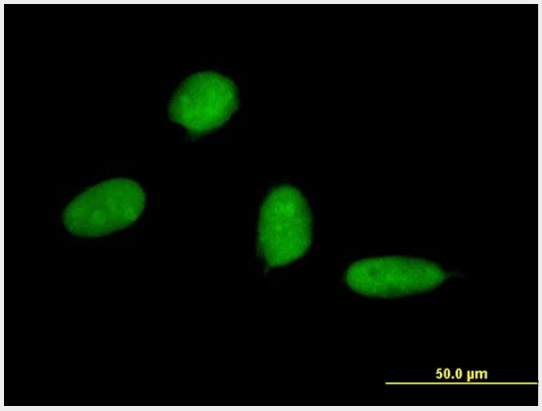
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

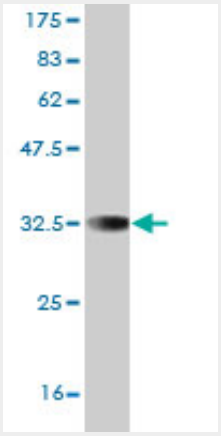
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

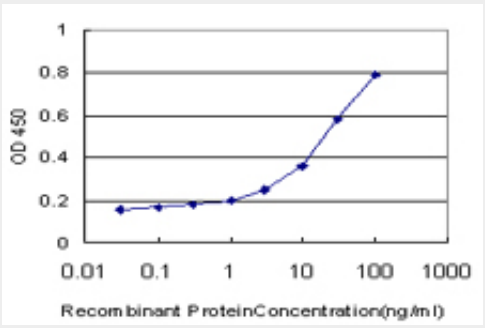
SP7 Antibody (monoclonal) (M01) - Images



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



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



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

SP7 Antibody (monoclonal) (M01) - 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.

SP7 Antibody (monoclonal) (M01) - 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.