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MYOG Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant MYOG.
Catalog # AT2963a

Specification

MYOG Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	P15173
Other Accession	BC053899
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 kappa**
Calculated MW	**25037**

MYOG Antibody (monoclonal) (M01) - Additional Information

Gene ID 4656

Other Names
Myogenin, Class C basic helix-loop-helix protein 3, bHLHc3, Myogenic factor 4, Myf-4, MYOG, BHLHC3, MYF4

Target/Specificity
MYOG (AAH53899, 1 a.a. ~ 224 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000
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
MYOG Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

MYOG Antibody (monoclonal) (M01) - Protocols

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

- Western Blot
- Blocking Peptides

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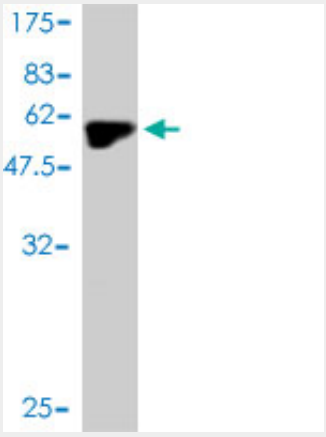
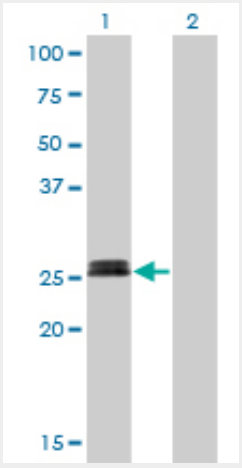
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MYOG Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (50.38 KDa) .



Western Blot analysis of MYOG expression in transfected 293T cell line by MYOG monoclonal antibody (M01), clone 2B7.

Lane 1: MYOG transfected lysate(25 KDa).
Lane 2: Non-transfected lysate.

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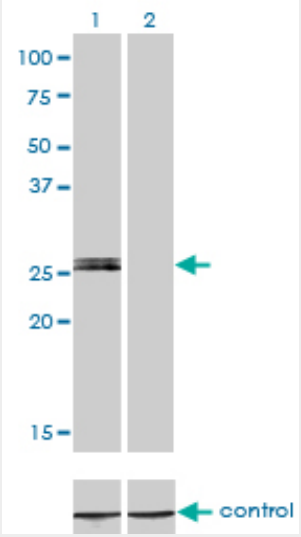
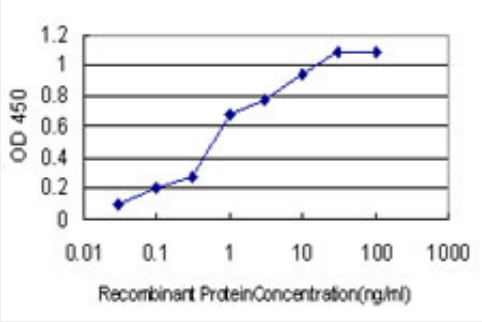


Western blot analysis of MYOG over-expressed 293 cell line, cotransfected with MYOG Validated Chimera RNAi ((Cat # AT2963a)



Detection limit for recombinant GST tagged MYOG is approximately 0.03ng/ml as a capture antibody.

MYOG Antibody (monoclonal) (M01) - Background

Myogenin is a muscle-specific transcription factor that can induce myogenesis in a variety of cell types in tissue culture. It is a member of a large family of proteins related by sequence homology, the helix-loop-helix (HLH) proteins. It is essential for the development of functional skeletal muscle.

MYOG Antibody (monoclonal) (M01) - References

CARM1 activates myogenin gene via PCAF in the early differentiation of TPA-induced rhabdomyosarcoma-derived cells. Gao X, et al. J Cell Biochem, 2010 May. PMID 20213728.Decreased Jun-D and myogenin expression in muscle wasting of human cachexia. Ramamoorthy S, et al. Am J Physiol Endocrinol Metab, 2009 Aug. PMID 19470832.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.Opposing control of rhabdomyosarcoma growth and differentiation by myogenin and interleukin 4. Nanni P, et al. Mol Cancer Ther, 2009 Apr. PMID 19372547.SMD and NMD are competitive pathways that contribute to myogenesis: effects on PAX3 and myogenin mRNAs. Gong C, et al. Genes Dev, 2009 Jan 1. PMID 19095803.