

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

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.

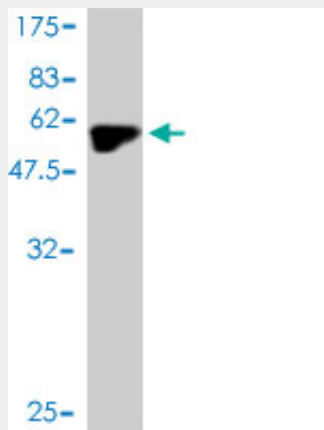
MYOG Antibody (monoclonal) (M01) - Protocols

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

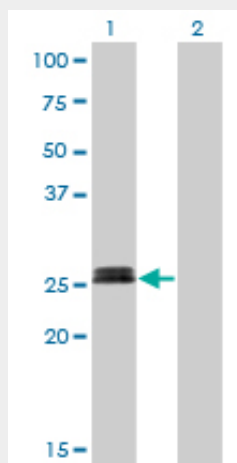
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MYOG Antibody (monoclonal) (M01) - Images



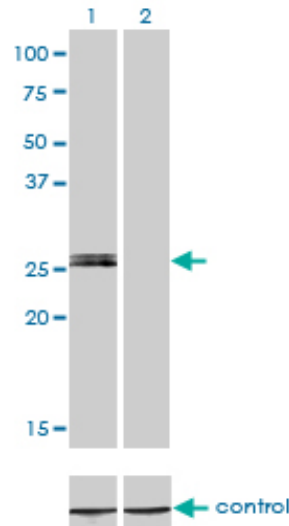
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (50.38 kDa) .



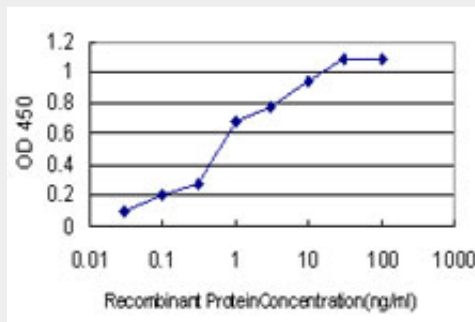
Western Blot analysis of MYOG expression in transfected 293T cell line by MYOG monoclonal antibody (M01), clone 2B7.

Lane 1: MYOG transfected lysate(25 kDa).

Lane 2: Non-transfected lysate.



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.