

**MYOG Antibody (monoclonal) (M02)****Mouse monoclonal antibody raised against a full length recombinant MYOG.****Catalog # AT2964a****Specification**

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**MYOG Antibody (monoclonal) (M02) - Product Information**

Application	<b>E</b>
Primary Accession	<a href="#">P15173</a>
Other Accession	<a href="#">BC053899</a>
Reactivity	<b>Human</b>
Host	<b>mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG2b Kappa</b>
Calculated MW	<b>25037</b>

**MYOG Antibody (monoclonal) (M02) - 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.

**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) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

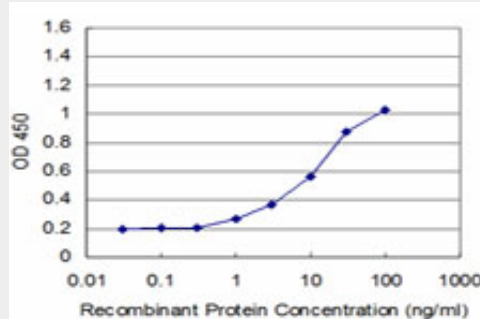
**MYOG Antibody (monoclonal) (M02) - Protocols**

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) (M02) - Images**



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

### **MYOG Antibody (monoclonal) (M02) - 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) (M02) - 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.