PRODUCT INFORMATION

Product name : MYOG antibody Product type : Primary antibodies Description : Mouse monoclonal to MYOG Immunogen : 1 synthetic peptide (human) conjugated to KLH Reacts with : Hu, Ms Tested applications : ELISA, WB & IF

GENE INFORMATION

Gene Symbol : MYOG Gene Name : myogenin (myogenic factor 4) Ensembl ID : ENSG00000122180 Entrez GeneID : 4656 GenBank Accession number : BC053899.1 Swiss-Prot : P15173

Molecular weight: 25kDa

Function : Involved in muscle differentiation (myogenic factor). Induces fibroblasts to differentiate into myoblasts. Probable sequence specific DNA-binding protein.

Expected subcellular localization : Nucleus.

Summary : 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. [provided by RefSeq]

APPLICATION NOTE

Recommended dilution :

- ELISA: Antibody specificity was verified by direct ELISA against the 1 immunogen peptide. A titer of 10 has been determined. Appropriate specificity controls were run.
- WB: Dilution 1/100
- IF: Dilution 1/50

Optimal dilutions/concentration should be determined by the end user.

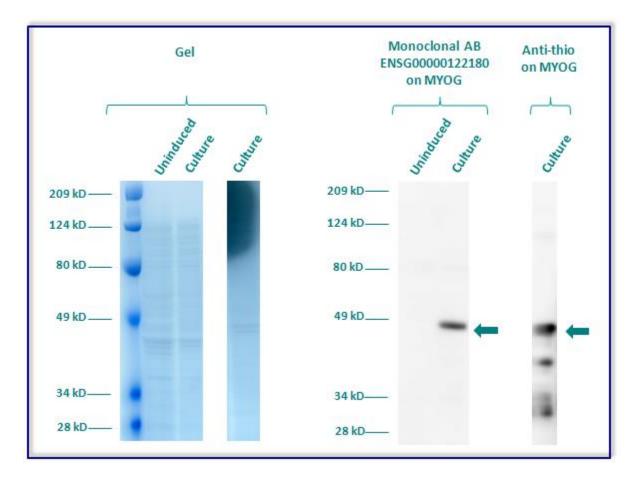
Raised in : Mouse Clonality : Monoclonal Isotype : IgG Purity : Purified Antibody Storage buffer : Containing a final concentration of PBS/glycerol (V/V), 0.1% BSA and 0.01% Thimerosal. Form : Liquid

Storage instruction : Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

The monoclonal purified antibody ENSG00000122180 has tested at 1/100 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-thio has been tested at 1/5000 on induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Clone : 2F4H4F9, Isotype : G1; kappa Plasmid name : pBAD-DEST49. Molecular weight of MYOG : 39kDa (25kDa + another 14kDa for the tag).



Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution 1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000122180 at 1:100
- Dilute the anti-thio at 1:5000
- 60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

• Dilute the anti-Mouse IgG HRP conjugated at 1/10000 60 minutes of incubation

Immunofluorescence analysis of Myogenin (MYOG) expression in 6 cells lines (HELA, 293T/17, Capan-2, SAOS-2, SH-SY5Y, Skin 3,44). The monoclonal antibody ENSG00000122180 has been tested at 1/50.

Green staining : cytoskeleton (microtubules/α-tubuline)

Blue staining : nucleus (Hoechst)

Red staining : anti- MYOG antibody (purified)

Expected subcellular location : Nucleus

