

Product datasheet for AM33347PU-S

OriGene Technologies, Inc.

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Myogenin (MYOG) Mouse Monoclonal Antibody [Clone ID: F5D]

Product data:

Product Type: Primary Antibodies

Clone Name: F5D

Applications: FC, IF, IHC, IP, WB

Recommended Dilution: ELISA: For coating, order Antibody without BSA.

Flow Cytometry: $0.5-1 \mu g/10^6$ cells. Immunofluorescence: $0.5-1 \mu g/ml$.

Western Blot: 0.5-1 µg/ml.

Immunoprecipitation: 0.5-1 μg/500 μg protein lysate.

Immunohistochemistry on Frozen Sections.

Immunohistochemistry on Paraffin Sections: 0.5-1 μg/ml for 30 minutes at RT.

Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH

6.0, for 10-20 min followed by cooling at RT for 20 minutes.

Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.

Reactivity: Canine, Feline, Human, Mouse, Porcine, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Rat Myogenin peptide (aa 73-94) followed by Rat Myogenin recombinant fragment (aa30-224)

Epitope: aa138-158.

Specificity: Anti-Myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in

tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear

staining may occur in Wilms' tumor.

Cellular Localization: Nuclear.

Formulation: 10mM PBS

State: Purified

State: Liquid purified IgG fraction

Stabilizer: 0.05% BSA

Preservative: 0.05% Sodium Azide

Concentration: lot specific

Purification: Affinity Chromatography on Protein A/G





Database Link:

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Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 34 kDa

Gene Name: myogenin (myogenic factor 4)

Entrez Gene 4656 Human

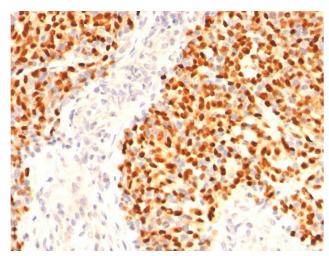
Background: P15173

Myogen

Myogenin is a member of the MyoD family of myogenic basic helix-loop-helix (bHLH) transcription factors that also includes MyoD, Myf-5, and MRF4 (also known as herculinor Myf-6). Family members are expressed exclusively in skeletal muscle and play a key role in activating myogenesis by binding to enhancer sequences of muscle-specific genes. The regulatory domain of MyoD is approximately 70 amino acids in length and includes both a basic DNA binding motif and a bHLH dimerization motif. Family members share about 80% amino acid homology in their bHLH motifs. Transfection of myogenin and other family members into a variety of non-muscle cells has been shown to either convert these cells to myogenic cells, or to transcriptionally activate a set of otherwise unexpressed muscle-specific genes. In addition to activating muscle specific genes, family members activate their own transcription and transactivate the transcription of other family members. For example, transfection of myogenin into 10T1/2 cells or Swiss 3T3 cells results in the activation of the endogenous myogenin gene as well as transactivation of MyoD. Likewise, the transfection of MyoD into these cells results in the activation of MyoD as well as the transactivation of myogenin. Each member of the family has distinct roles in muscle development; myogenin plays a key role in muscle maturation. Myogenin migrates at a molecular weight of ~34 kDa by SDS-PAGE.

Synonyms: MYOG, MYF4, Myogenic factor 4, BHLHC3

Product images:



Formalin-Paraffin Rhabdomyosarcoma stained with Myogenin Antibody (Clone F5D).