

Anti-Myogenin (Skeletal Muscle Marker) Monoclonal Antibody

Catalog Number: M03238

About MYOG

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). MyoD 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. MyoD family members share about 80% amino acid homology in their bHLH motifs. 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's tumor.

Overview

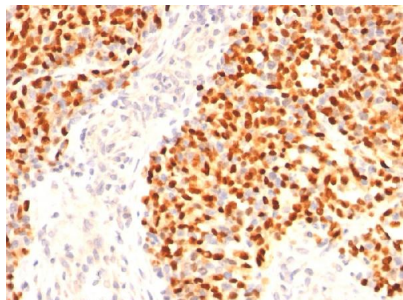
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| Product Name | Anti-Myogenin (Skeletal Muscle Marker) Monoclonal Antibody |
| Reactive Species | Dog, Human, Mouse, Pig, Rat, Cat |
| Description | Boster Bio Anti-Myogenin (Skeletal Muscle Marker) Monoclonal Antibody (Catalog # M03238). Tested in ELISA, IHC applications. This antibody reacts with Human, Mouse, Rat, Dog, Cat, Pig. |
| Conjugate | Biotin |
| Application | ELISA, IHC |
| Clonality | Monoclonal Clone: F5D |
| Formulation | Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| Storage Instructions | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required. |
| Host | Mouse |
| Uniprot ID | P15173 |

Technical Details

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| Immunogen | Rat myogenin peptide (aa 73-94) followed by rat myogenin recombinant fragment (aa30-224) (Epitope aa138-158) |
| Predicted Reactive Species | Pig, Rabbit |
| Cross Reactivity | Does not cross-react with primate, avian or amphibian GR. |
| Isotype | IgG1, kappa |
| Form | Liquid |

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| Concentration | Purified antibody with BSA and azide at 200ug/ml |
| Purification | 200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G. |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA (For coating, order antibody without BSA)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p> |

Anti-Myogenin (Skeletal Muscle Marker) Monoclonal Antibody (M03238) Images



Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Anti-Myogenin Mouse Monoclonal Antibody (F5D)

1 Publications Citing This Product

1. PubMed ID: 10.1016/j.aanat.2020.151647, Immunohistochemical evidence of striated muscle cells within midfacial superficial musculoaponeurotic system

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