

Product datasheet for **AM50145PU-S**

Myogenin (MYOG) Mouse Monoclonal Antibody [Clone ID: SPM144]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | SPM144 |
| Applications: | FC, IF, IHC, IP, WB |
| Recommended Dilution: | ELISA: Use BSA free Antibody for coating. Flow Cytometry: 0.5-1 µg/million cells. Immunofluorescence: 0.5-1 µg/ml. Western Blotting: 0.5-1 µg/ml. Immunoprecipitation: 0.5-1 µg/500 µg protein lysate. Immunohistochemistry on Frozen and Formalin-Fixed Sections: 0.5-1.0 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: | Feline, Human, Mouse, Porcine, Rat |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Human Myogenin recombinant protein. |
| 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 from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide |
| Concentration: | lot specific |
| Purification: | Protein A/G Chromatography |



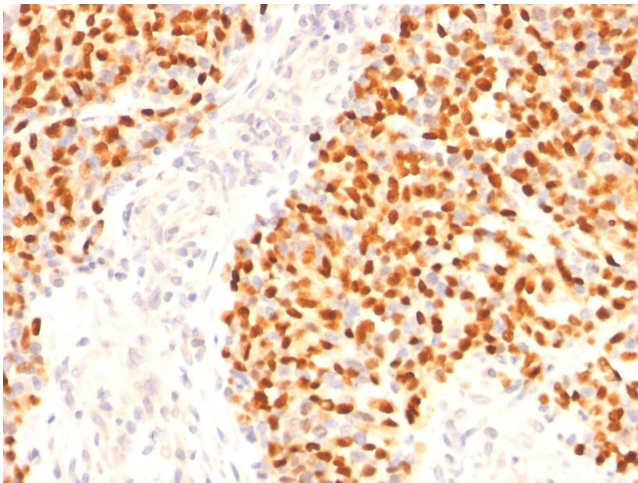
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|-------------------------|---|
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 34 kDa |
| Gene Name: | myogenin (myogenic factor 4) |
| Database Link: | Entrez Gene 4656 Human P15173 |

Background: 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.

Synonyms: MYOG, MYF4, Myogenic factor 4, BHLHC3

Product images:



Formalin Paraffin rhabdomyosarcoma stained with Myogenin Antibody (Clone SPM144).