Catalog # 4656-MSM1
Product Datasheet

Myogenin / Myf-4 (Skeletal Muscle Marker) Antibody

Mouse Monoclonal Antibody [Clone MGN185]

Catalog No	Format	Size
4656-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4656-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4656-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

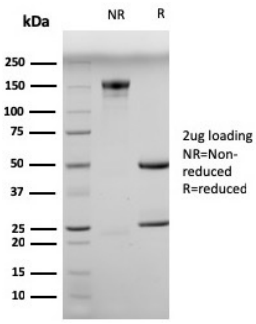
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

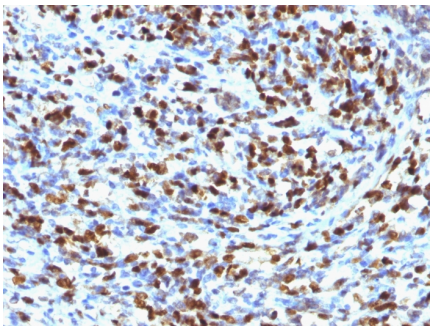
Clone	MGN185
Gene Name	MYOG
Immunogen	Human myogenin recombinant protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	34kDa
Cellular Localization	Nucleus
Species Reactivity	Cat, Human, Mouse, Pig, Rat
Positive Control	Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.

**Optimal dilution for a specific application should be determined.*

Product Images for Myogenin / Myf-4 (Skeletal Muscle Marker) Antibody



SDS-PAGE Analysis of Purified Myogenin Mouse Monoclonal Antibody (MGN185). Confirmation of Integrity and Purity of Antibody.



Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Myogenin Mouse Monoclonal Antibody (MGN185).

Specificity & Comments

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' tumor.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

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.

Research Areas

Autophagy, Cardiovascular, Developmental Biology, Mesenchymal Stem Cell Differentiation, Nuclear Marker

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.