

Mouse Myogenin Monoclonal Antibody | anti-MYOG antibody

Myogenin (Skeletal Muscle Marker) Mouse Monoclonal Antibody

CATALOG # AAA62650	HOST Mouse	REACTIVITY Human, Mouse, Rat, Cat, Pig	APPLICATIONS Immunohistochemistry
------------------------------	----------------------	--	---

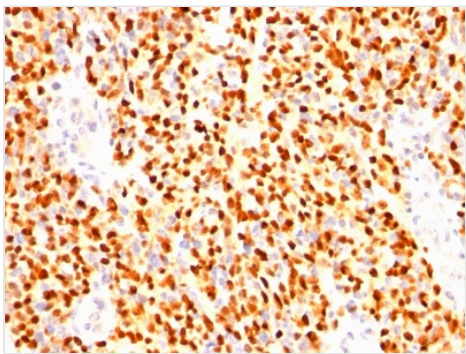
PRODUCT SYNONYMS

Myogenin; Monoclonal Antibody; Myogenin (Skeletal Muscle Marker) Mouse Monoclonal Antibody; bHLHc3; cb553; Class C basic helix-loop-helix protein 3; Myf-4; MYF4; MYOG; Myogenic factor 4; Myogenin myogenin factor 4; anti-MYOG antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Cat, Pig
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	SPM144
Specificity	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.
Form/Format	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.
Sequence Length	224
Applicable Applications for anti-MYOG antibody	IHC (Immunohistochemistry)
Cellular Localization	Nuclear
Immunogen	Human myogenin recombinant protein
Hu-Chromosome Location	1q32.1
Positive Control	Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Myogenin
Monoclonal Antibody (SPM144)

ADDITIONAL INFORMATION

References	Wang NP et. al. Am J Pathol 1995, 147:1799-1810
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	18765727
NCBI GeneID	4656
NCBI Accession #	NP_002470.2
NCBI GenBank Nucleotide #	NM_002479.5
UniProt Accession #	P15173; Q53XW6
Molecular Weight	34kDa
NCBI Official Full Name	myogenin
NCBI Official Synonym Full Names	myogenin (myogenic factor 4)
NCBI Official Symbol	MYOG
NCBI Official Synonym Symbols	MYF4; myf-4; bHLHc3
NCBI Protein Information	myogenin
UniProt Protein Name	Myogenin
UniProt Gene Name	MYOG
UniProt Synonym Gene Names	BHLHC3; MYF4; bHLHc3; Myf-4
UniProt Entry Name	MYOG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.