

Mouse Myoglobin Monoclonal Antibody | anti-MB antibody

Myoglobin (Muscle Cell Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214775	Mouse	Human, Mouse, Rat, Canine	Immunohistochemistry

PRODUCT SYNONYMS

Myoglobin; Monoclonal Antibody; Myoglobin (Muscle Cell Marker); MB; PVALB; anti-MB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Canine
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	MB/2105
Specificity	Myoglobin is a cytosolic oxygen-binding protein responsible for the storage and diffusion of oxygen within myocytes. Expression of myoglobin is highest in skeletal and cardiac muscle. Myoglobin is well accepted as an O ₂ -storage protein in muscle, capable of releasing O ₂ during periods of hypoxia or anoxia. In combination with other striated muscle markers such as vimentin and myogenin, myoglobin is helpful in the identification of rhabdomyosarcoma and tumors with skeletal muscle differentiation. Reportedly, myoglobin is expressed on epithelial cancer cells due to changed metabolic and environmental conditions.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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	154
Applicable Applications for anti-MB antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant human full-length Myoglobin (MB) protein.
Positive Control	SK-BR3 or T47D Cells. Skeletal or Cardiac Muscle
Research Areas	Cardiovascular, Hypoxia
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



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Myoglobin Mouse Monoclonal Antibody (MB/2105). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Mouse Heart stained with Myoglobin Mouse Monoclonal Antibody (MB/2105).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Rat Skeletal Muscle stained with Myoglobin Mouse Monoclonal Antibody (MB/2105).

ADDITIONAL INFORMATION

References	Qiu, Y., et al. 1998. Identification of myoglobin in human smooth muscle. J. Biol. Chem. 273: 23426-23432.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4885477
NCBI GeneID	4151
NCBI Accession #	NP_005359.1
NCBI GenBank Nucleotide #	NM_005368.2
UniProt Accession #	P02144; Q52H51; Q5THY7
Molecular Weight	17kDa
NCBI Official Full Name	myoglobin
NCBI Official Synonym Full Names	myoglobin
NCBI Official Symbol	MB
NCBI Official Synonym Symbols	PVALB; myoglobin
NCBI Protein Information	myoglobin
UniProt Protein Name	Myoglobin
UniProt Gene Name	MB

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