

## Recombinant MyoD1 (Rhabdomyosarcoma Marker) Antibody

Mouse Monoclonal Antibody [Clone rMYD712]

Catalog No	Format	Size
4654-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4654-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4654-MSM6-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

Applications	Tested Dilution	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
Western Blot (WB)	2-4ug/ml	

### Product Details

Clone	rMYD712
Gene Name	MYOD1
Immunogen	Recombinant full-length human MyoD1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	45kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	Rhabdomyosarcoma. Heart.

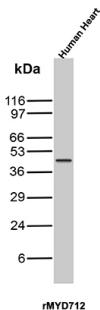
\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant MyoD1 (Rhabdomyosarcoma Marker) Antibody

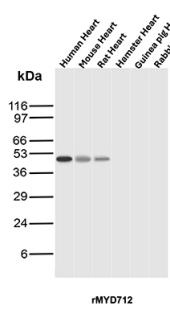


Analysis of Protein Array containing more than 19,000 full-length human proteins using MyoD1 Mouse Recombinant Monoclonal Antibody (rMYD712). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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 Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.

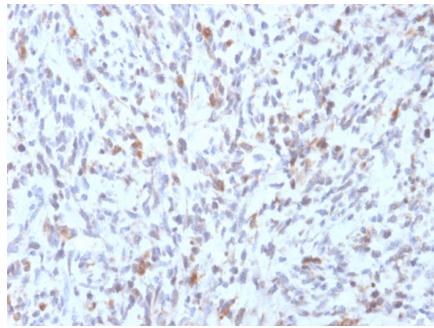
SDS-PAGE Analysis of Purified Myoblast determination protein 1 Recombinant Mouse Monoclonal Antibody (rMYD712). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of Human Heart tissue lysate using MYOD1 Recombinant Mouse Monoclonal Antibody (rMYD712).



Western Blot Analysis of Heart tissue lysates of different species using MYOD1 Recombinant Mouse Monoclonal Antibody (rMYD712).



Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with MyoD1 Mouse Recombinant Monoclonal Antibody (rMYD712).

### Specificity & Comments

Recognizes a phosphor-protein of 45kDa, identified as MyoD1. This MAAb does not cross react with myogenin, Myf5, or Myf6. Antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues. MyoD1 is not detected in normal adult tissue, but is highly expressed in the tumor cell nuclei of rhabdomyosarcomas. Occasionally nuclear expression of MyoD1 is seen in ectomesenchymoma and a subset of Wilms' tumors. Weak cytoplasmic staining is observed in several non-muscle tissues, including glandular epithelium and also in rhabdomyosarcomas, neuroblastomas, Ewing's sarcomas and alveolar soft part sarcomas.

### Supplied As

200ug/ml of Ab produced in HEK293 cell mammalian-based expression system. 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, Cancer, 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.