

Product datasheet for **DM278**

MYOD1 Mouse Monoclonal Antibody [Clone ID: 5.2F]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5.2F
Applications:	IHC, IP
Recommended Dilution:	Immunoprecipitation: 1/50. Immunohistochemistry on Formalin-Fixed Paraffin Embedded Sections: 1/25-1/50 in an ABC method for 30 minutes at room temperature. Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 1mM EDTA, pH 8.0 or 10mM Citrate buffer, pH 6.0 prior to immunostaining. <i>Recommended Positive Control:</i> Rhabdomyosarcoma
Reactivity:	Chicken, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	BALB/C mice were injected with a recombinant mouse MyoD1 protein.
Specificity:	This antibody is specific to a 45 kD protein, which is identified as MyoD1. This antibody is specific to an epitope of amino acid 3-56 in the N-terminus of mouse MyoD1. This antibody does not react with myogenin, Myf5 or Myf6. MyoD1 stains the nuclei of myoblasts in developing muscle tissues. MyoD1 is not detected in normal adult tissue but is expressed strongly in the tumor cell nuclei of rhabdomyosarcomas. Cellular Localization: Nuclear
Formulation:	State: Purified State: Liquid purified Ig fraction containing Sodium Azide as preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	myogenic differentiation 1
Database Link:	Entrez Gene 17927 Mouse P10085



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Background:

MyoD1 belongs to the basic helix-loop-helix family of transcription factors and the myogenic factors subfamily. It regulates muscle cell differentiation by inducing cell cycle arrest, a prerequisite for myogenic initiation. MyoD1 is essential for repair of damaged tissue. It activates its own transcription which may stabilize commitment to myogenesis.

Synonyms:

MYF3, MYOD, Myoblast determination protein 1, Myogenic factor 3, BHLHC1