

Datasheet for ABIN967403

anti-MYOD1 antibody

3 Images

5 Publications

[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	MYOD1
Reactivity:	Human, Mouse, Rat, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MYOD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Brand:	BD Pharmingen™
Immunogen:	Recombinant Mouse MyoD
Clone:	5-8A
Isotype:	IgG1 kappa
Cross-Reactivity:	Human, Rat (Rattus), Chicken
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	MYOD1
Alternative Name:	MyoD (MYOD1 Products)
Background:	<p>MyoD is a member of a family of myogenic basic helix-loop-helix (bHLH) transcription factors that includes Myf-5, myogenin, and MRF4 (also known as herculin or Myf-6). Members of this family, expressed exclusively in skeletal muscle, play a key role in myogenesis by activating muscle-specific genes in response to extracellular growth factors. Transfection of MyoD and other family members into non-muscle cells has been shown to either convert these cells to myogenic cells or to transcriptionally activate a set of otherwise unexpressed muscle-specific genes. Members of this family have distinct roles in muscle development, for example, MyoD and Myf-5 act early during myeloid development, whereas myogenin acts at a later point during myoblast differentiation. The expression and activity of MyoD has been shown to involve the mitogen-activated protein kinase (MAPK) cascade. This antibody is routinely tested by western blot analysis. The epitope for MoAb 5.8A has been mapped to amino acids 180-189 of mouse MyoD.</p>
Molecular Weight:	45/48 kDa
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

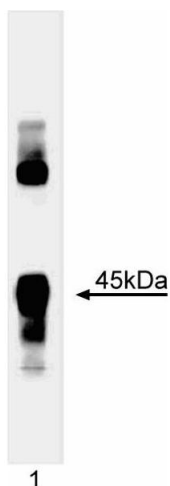
Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤ 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4° C.

Product cited in: Helisalmi, Väkevä, Hiltunen, Soininen: "Flanking markers of cystatin c (CST3) gene do not show association with Alzheimer's disease." in: **Dementia and geriatric cognitive disorders**, Vol. 27, Issue 4, pp. 318-21, (2009) ([PubMed](#)).

Rehman, Fought, Solomon: "N-acetylcysteine effect on serum creatinine and cystatin C levels in CKD patients." in: **Clinical journal of the American Society of Nephrology : CJASN**, Vol. 3, Issue 6, pp. 1610-4, (2008) ([PubMed](#)).

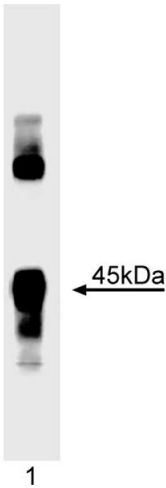
Validation report #028758 for Immunohistochemistry (IHC)

Image 1.



Western Blotting

Image 2. Western blot analysis of MyoD. Lysate from Rh30 rhabdomyosarcoma cells was probed with anti-MyoD (clone MoAb 5.8A, ABIN967403). MyoD is identified as an ~45 kDa band.



Western Blotting

Image 3.