10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# MYL1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant MYL1.
Catalog # AT2951a

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, E |
| **Primary Accession** | P05976 |
| **Other Accession** | NM_079422 |
| **Reactivity** | Human |
| **Host** | mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG2a Kappa |
| **Clone Names** | 2D9 |
| **Calculated MW** | 21145 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 4632 |
| **Other Names** | Myosin light chain 1/3, skeletal muscle isoform, MLC1/MLC3, MLC1F/MLC3F, Myosin light chain alkali 1/2, Myosin light chain A1/A2, MYL1 |
| **Target/Specificity** | MYL1 (NP_524146, 1 a.a. ~ 80 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Dilution** | WB~~1:500~1000 IHC~~1:100~500 E~~N/A |
| **Format** | Clear, colorless solution in phosphate buffered saline, pH 7.2 . |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| **Precautions** | MYL1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Background

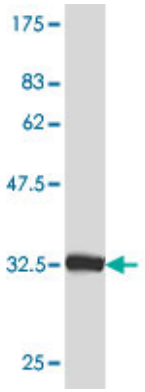
Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain expressed in fast skeletal muscle. Two transcript variants have been identified for this gene.

## References

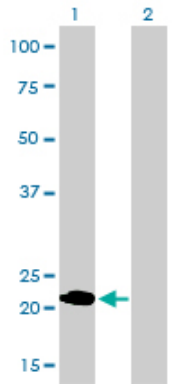
Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.The status,

quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Interaction of ADP-ribosylated actin with actin binding proteins. Ballweber E, et al. FEBS Lett, 2001 Nov 9. PMID 11707283.A nonerythroid isoform of protein 4.1R interacts with components of the contractile apparatus in skeletal myofibers. Kontrogianni-Konstantopoulos A, et al. Mol Biol Cell, 2000 Nov. PMID 11071908.

## Images

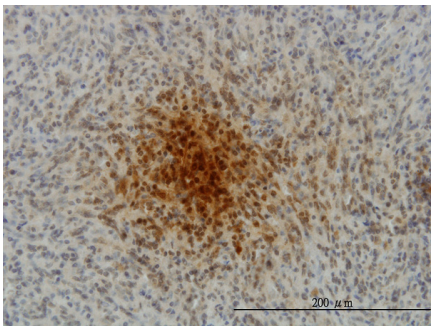



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (34.54 KDa) .

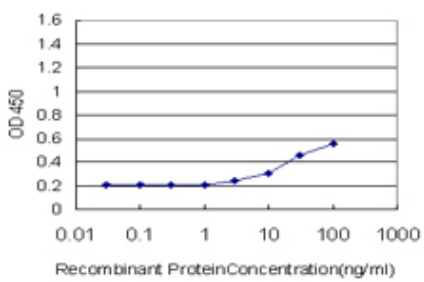



Western Blot analysis of MYL1 expression in transfected 293T cell line by MYL1 monoclonal antibody (M01), clone 2D9.

Lane 1: MYL1 transfected lysate(21.1 KDa).
Lane 2: Non-transfected lysate.



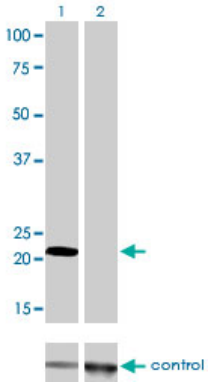

Immunoperoxidase of monoclonal antibody to MYL1 on formalin-fixed paraffin-embedded human spleen. [antibody concentration 3 ug/ml]




Detection limit for recombinant GST tagged MYL1 is approximately 3ng/ml as a capture antibody.

Western blot analysis of MYL1 over-expressed 293 cell line, cotransfected with MYL1 Validated Chimera RNAi (

(Cat # AT2951a )




Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.