

TNNI3 Antibody (monoclonal) (M04)**Mouse monoclonal antibody raised against a partial recombinant TNNI3.****Catalog # AT4292a****Specification**

TNNI3 Antibody (monoclonal) (M04) - Product Information

Application	IF, WB, IHC, E
Primary Accession	P19429
Other Accession	NM_000363
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	24008

TNNI3 Antibody (monoclonal) (M04) - Additional Information**Gene ID** 7137**Other Names**

Troponin I, cardiac muscle, Cardiac troponin I, TNNI3, TNNC1

Target/Specificity

TNNI3 (NP_000354, 102 a.a. ~ 210 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

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

TNNI3 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

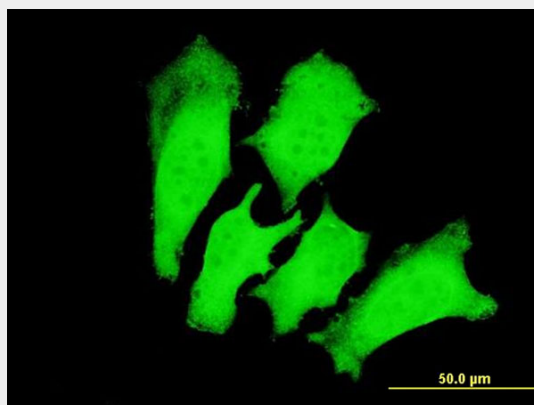
TNNI3 Antibody (monoclonal) (M04) - Protocols

Provided below are standard protocols that you may find useful for product applications.

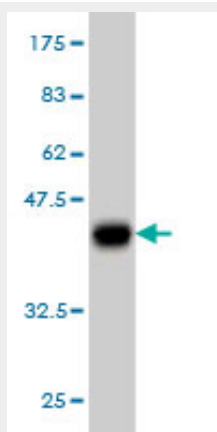
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

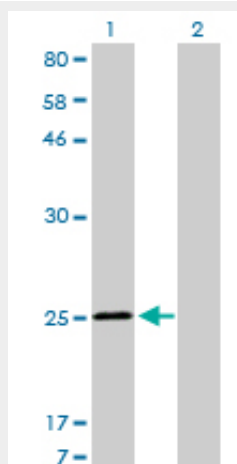
TNNI3 Antibody (monoclonal) (M04) - Images



Immunofluorescence of monoclonal antibody to TNNI3 on HeLa cell . [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .

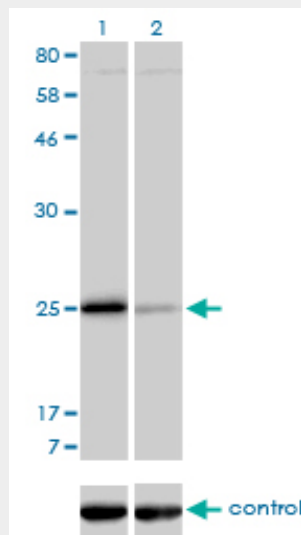


Western Blot analysis of TNNI3 expression in transfected 293T cell line by TNNI3 monoclonal

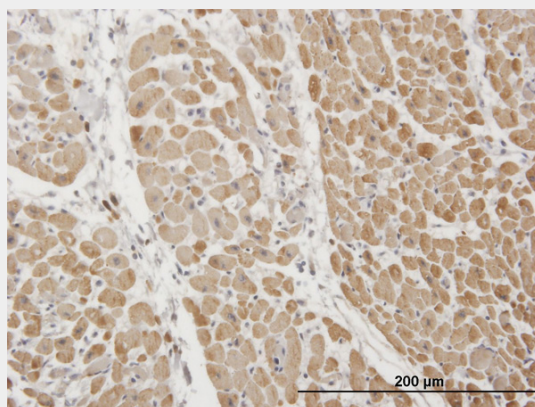
antibody (M04), clone 1E7.

Lane 1: TNNI3 transfected lysate(24 KDa).

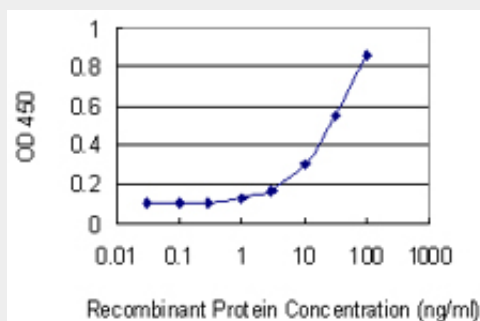
Lane 2: Non-transfected lysate.



Western blot analysis of TNNI3 over-expressed 293 cell line, cotransfected with TNNI3 Validated Chimera RNAi (Cat # AT4292a)



Immunoperoxidase of monoclonal antibody to TNNI3 on formalin-fixed paraffin-embedded human heart. [antibody concentration 0.7 ug/ml]



Detection limit for recombinant GST tagged TNNI3 is 1 ng/ml as a capture antibody.

TNNI3 Antibody (monoclonal) (M04) - Background

Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the

troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).

TNNI3 Antibody (monoclonal) (M04) - References

1. Myomegalin is a novel A-kinase anchoring protein involved in the phosphorylation of cardiac myosin binding protein C. Uys GM, Ramburan A, Loos B, Kinnear CJ, Korkie LJ, Mouton J, Riedemann J, Moolman-Smook JC. BMC Cell Biol. 2011 May 10;12:18.