

TNNI3 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant TNNI3.

Catalog # AT4292a

Product Information

| | |
|--------------------------|---------------------------|
| Application | WB, IHC, IF, E |
| Primary Accession | P19429 |
| Other Accession | NM_000363 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | monoclonal |
| Isotype | IgG2a Kappa |
| Clone Names | 1E8 |
| Calculated MW | 24008 |

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 IHC~~1:100~500 IF~~1:50~200 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 | TNNI3 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures. |

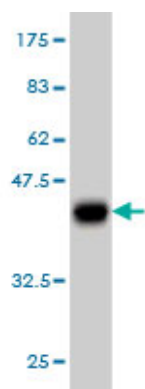
Background

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).

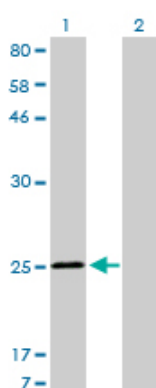
References

1. Myomegalin is a novel A-kinase anchoring protein involved in the phosphorylation of cardiac myosin

Images

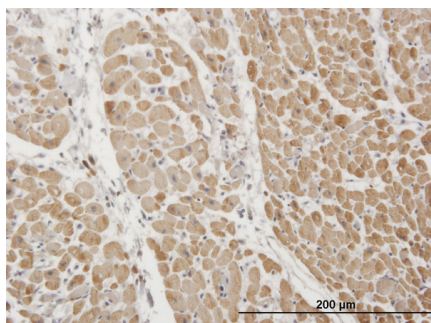


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .

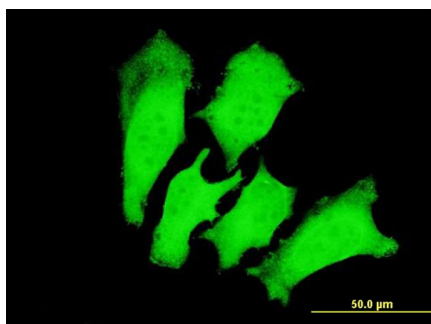


Western Blot analysis of TNNI3 expression in transfected 293T cell line by TNNI3 monoclonal antibody (M04), clone 1E7.

Lane 1: TNNI3 transfected lysate(24 KDa).
Lane 2: Non-transfected lysate.

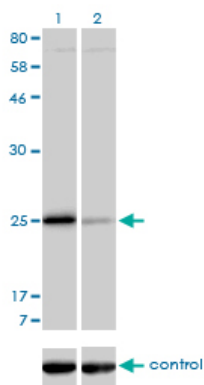
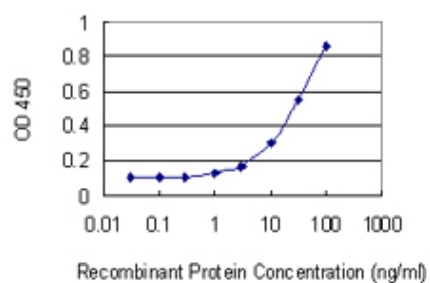


Immunoperoxidase of monoclonal antibody to TNNI3 on formalin-fixed paraffin-embedded human heart. [antibody concentration 0.7 ug/ml]



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

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



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

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