

10-7581: Monoclonal antibody to Troponin 1 (Clone: ABM49D9)

Clonality :	Monoclonal
Clone Name :	ABM49D9
Application :	IHC, WB
Reactivity :	Human
Gene :	TNNI3
Gene ID :	7137
Uniprot ID :	P19429
Format :	Purified
Alternative Name :	TNNI3, TNNC1
Isotype :	Mouse IgG2b Kappa
Immunogen Information :	A partial length recombinant protein from N terminal portion of Troponin 1 was used as the immunogen for this antibody.

Description

Troponin I (TNNI3) plays a key role in the regulation of contraction and relaxation. As part of the thin filament, the troponin complex (cTnI, troponin T [TnT], and troponin C [TnC]), along with tropomyosin, regulates the actin filament interaction with the thick filament (composed primarily of myosin) in a Ca²⁺-dependent manner. Human troponin I can be phosphorylated at multiple amino acid residues, S22, S23, T30, S41, S43, S76, T77, T142, S149, and S165 (the numbering excludes the initiating methionine), and studies have shown that phosphorylation at different residues can alter function. Troponin I along with troponin T is found in heart muscle and is released into the blood when there is damage to the heart. Troponin tests are also sometimes used to evaluate people for heart injury due to causes other than a heart attack or to distinguish signs and symptoms such as chest pain that may be due to other causes.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 0.5-1 µg/ml; Immunohistochemistry: 5-10 µg/ml

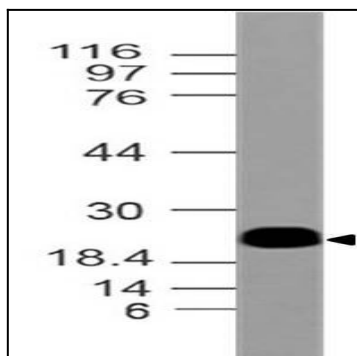


Fig:1- Expression analysis of Troponin 1. Anti-Troponin 1 antibody (Clone: ABM49D9) was tested at 0.5 µg/ml on h Heart lysate.

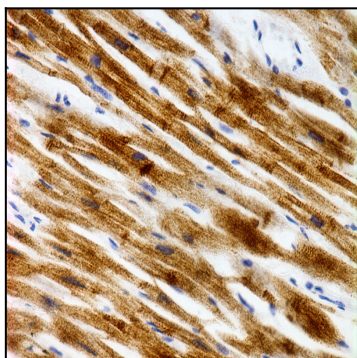


Fig:2- Immunohistochemical analysis of Troponin 1 in human Heart tissue using Troponin 1 antibody (Clone: ABM49D9) at 5 µg/ml.