

For Research Use Only

TNNC1 Polyclonal antibody

Catalog Number: 13504-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

13504-1-AP

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4339

GenBank Accession Number:

BC030244

GeneID (NCBI):

7134

UNIPROT ID:

P63316

Full Name:

troponin C type 1 (slow)

Calculated MW:

161 aa, 18 kDa

Observed MW:

18 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse skeletal muscle tissue, human stomach tissue

IP: mouse heart tissue,

IHC: human skeletal muscle tissue, mouse skeletal muscle tissue

IF/ICC: U2OS cells,

FC (Intra): U2OS cells,

Background Information

Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. TnC plays an important role in excitation-contraction coupling and is the primary target of compounds such as levosimendan that augment Ca²⁺ responsiveness of the thin filament.

Notable Publications

Author	Pubmed ID	Journal	Application
Magdalena A Cichewicz	30037979	Mol Cell Biol	WB
Xian Ye	32946432	Med Sci Monit	WB
Fan Ma	33116603	Onco Targets Ther	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

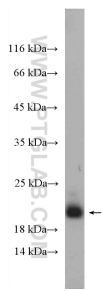
T: 4006900926

E: Proteintech-CN@ptglab.com

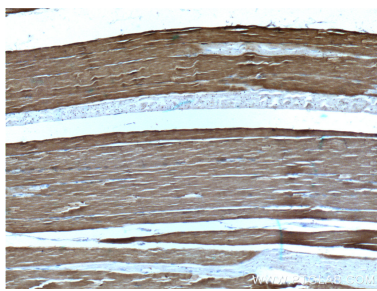
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

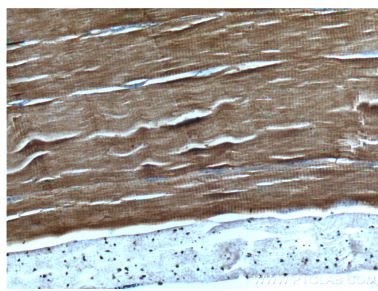
Selected Validation Data



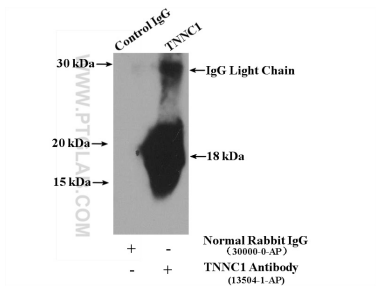
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 13504-1-AP (TNNC1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



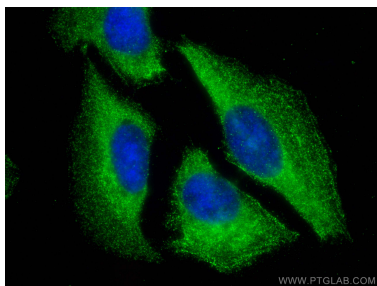
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 13504-1-AP (TNNC1 Antibody) at dilution of 1:200 (under 10x lens).



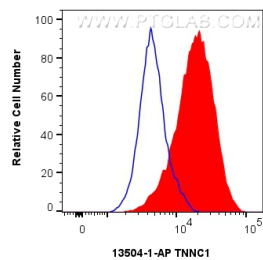
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 13504-1-AP (TNNC1 Antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-TNNC1 (IP:13504-1-AP, 4ug; Detection:13504-1-AP 1:600) with mouse heart tissue lysate 4400ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using TNNC1 antibody (13504-1-AP) at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10⁶ U2OS cells were intracellularly stained with 0.4 ug TNNC1 Polyclonal antibody (13504-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).