

For Research Use Only

TNNC1 Polyclonal antibody

Catalog Number: 13504-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

13504-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 573 ug/ml by Bradford method using BSA as the standard;

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

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,

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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

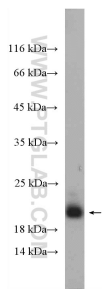
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

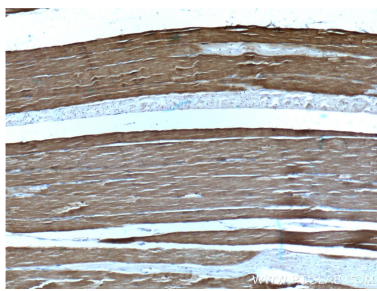
E: proteintech@ptglab.com
W: ptglab.com

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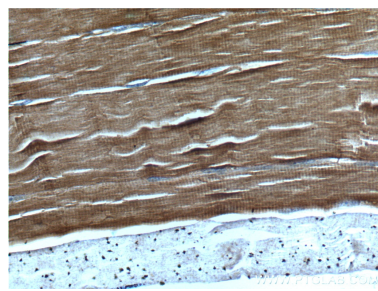
Selected Validation Data



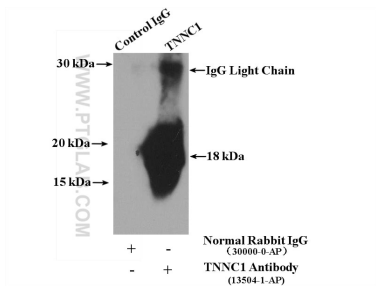
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 13504-1-AP (TNNC1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



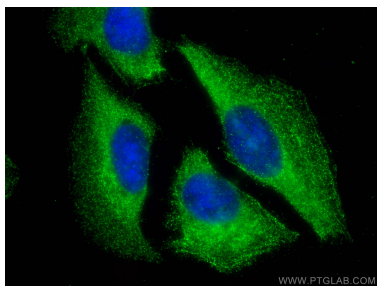
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 13504-1-AP (TNNC1 Antibody) at dilution of 1:200 (under 10x lens).



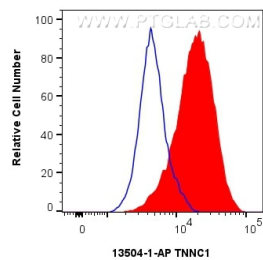
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 13504-1-AP (TNNC1 Antibody) at dilution of 1:200 (under 40x lens).



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).