For Research Use Only

Cardiac Troponin I Monoclonal antibody, PBS Only

Catalog Number:66376-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
66376-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG16758

GenBank Accession Number:
BC096165

GeneID (NCBI):
7137

UNIPROT ID:
P19429

Full Name:
troponin I type 3 (cardiac)

Calculated MW:
210 aa, 24 kDa

Observed MW:
26-28 kDa

Purification Method:
Protein G purification

CloneNo.:
1D5D6

Applications

Tested Applications:
WB, IF, IHC, ELISA

Species Specificity:
human, mouse, rat

Background Information

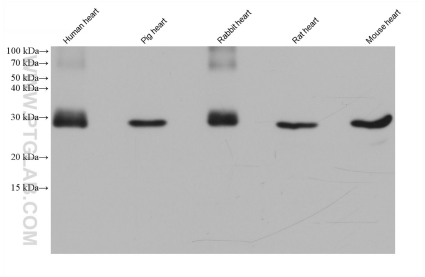
Troponin I (TnI) is the inhibitory subunit of troponin, the structural protein involved in the regulation of striated muscle contraction. Cardiac Troponin I (cTnI) is produced by cardiac muscle. Two other TnI isoforms (slow sTnI and fast sTnI) are produced by slow-twitch and fast-twitch skeletal muscles, respectively. cTnI has been considered as one of the most specific and sensitive markers of myocardial damage like acute myocardial infarction (AMI) for decades. Detection of cTnI in serum is widely accepted as a diagnostic tool in acute coronary syndromes. This antibody is specific to cTnI, but not cross-react with skeletal TnI.

Storage

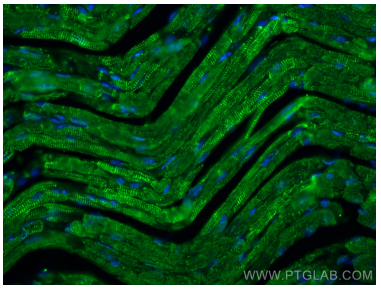
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS only
Aliquoting is unnecessary for -20°C storage

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

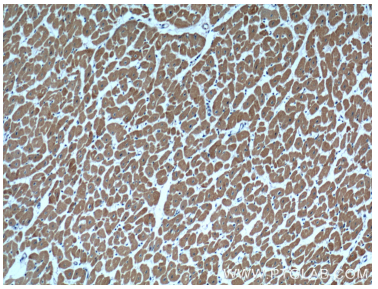
Selected Validation Data



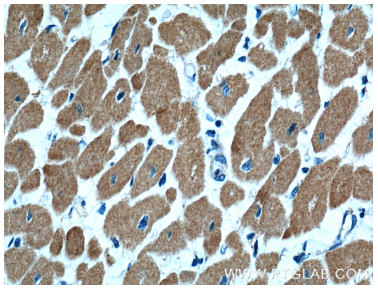
Various lysates were subjected to SDS PAGE followed by western blot with 66376-1-Ig (Cardiac Troponin I antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66376-1-PBS in a different storage buffer formulation.



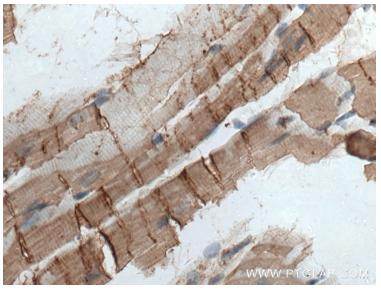
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Cardiac Troponin I antibody (66376-1-Ig, Clone: 1D5D6) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66376-1-PBS in a different storage buffer formulation.



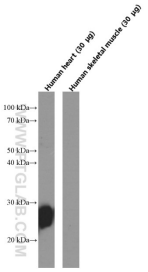
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66376-1-Ig (Cardiac Troponin I antibody) at dilution of 1:600 (under 10x lens). This data was developed using the same antibody clone with 66376-1-PBS in a different storage buffer formulation.



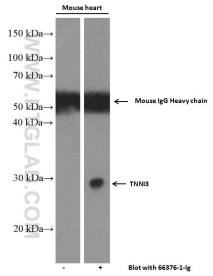
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66376-1-Ig (Cardiac Troponin I antibody) at dilution of 1:600 (under 40x lens). This data was developed using the same antibody clone with 66376-1-PBS in a different storage buffer formulation.



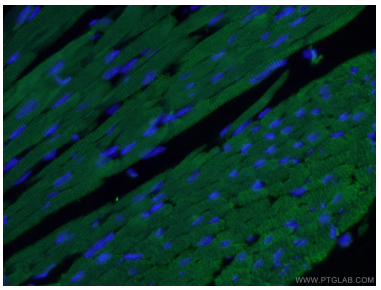
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 66376-1-Ig (Cardiac Troponin I antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66376-1-PBS in a different storage buffer formulation.



Human heart tissue and skeletal muscle tissue (negative control) were subjected to SDS PAGE followed by western blot with 66376-1-Ig (Cardiac Troponin I Antibody) at dilution of 1:20,000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66376-1-PBS in a different storage buffer formulation.



Mouse heart tissue (6 ug/lane) was subjected to SDS PAGE followed by western blot with 66376-1-Ig (Cardiac Troponin I Antibody) at dilution of 1:5,000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66376-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 66376-1-Ig(Cardiac Troponin I antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66376-1-PBS in a different storage buffer formulation.