

For Research Use Only

PPP3CA Polyclonal antibody, PBS Only

Catalog Number: 13422-1-PBS



Basic Information

Catalog Number:

13422-1-PBS

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4203

GenBank Accession Number:

BC025714

GeneID (NCBI):

5530

UNIPROT ID:

Q08209

Full Name:

protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform

Calculated MW:

59 kDa

Observed MW:

59 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

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

Species Specificity:

human, mouse

Background Information

PPP3CA, also called calcineurin A α , is the only serine/threonine protein phosphatase under the control of Ca $^{2+}$ /calmodulin, and plays a critical role in the coupling of Ca $^{2+}$ signals to cellular responses. Ca $^{2+}$ signaling plays a central role in hypertrophic growth of cardiac and skeletal muscle in response to mechanical load and a variety of signals. Therefore, PPP3CA plays an important role in muscle differentiation, especially in muscle fiber type conversion. It is also involved in osteoclast regulation, regulating bone formation through an effect on osteoblast differentiation.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

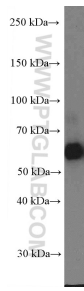
For technical support and original validation data for this product please contact:

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

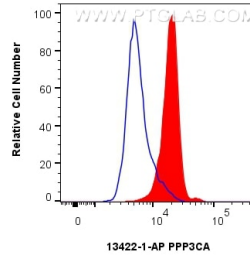
E: proteintech@ptglab.com
W: ptglab.com

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

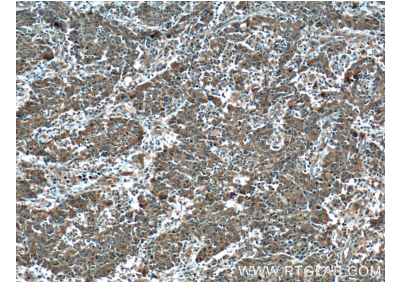
Selected Validation Data



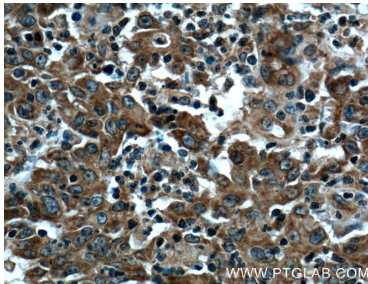
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 13422-1-AP (PPP3CA Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13422-1-PBS in a different storage buffer formulation.



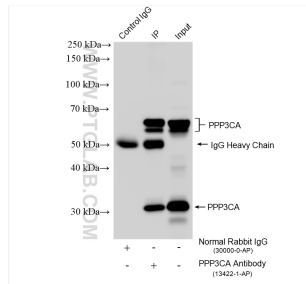
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug PPP3CA Polyclonal antibody (13422-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 13422-1-PBS in a different storage buffer formulation.



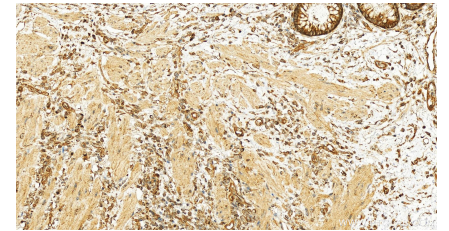
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13422-1-AP (PPP3CA Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 13422-1-PBS in a different storage buffer formulation.



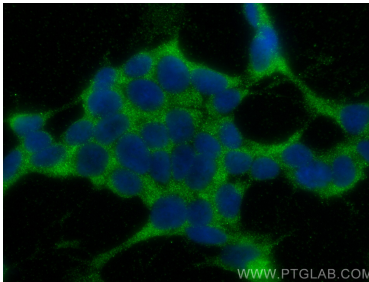
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13422-1-AP (PPP3CA Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 13422-1-PBS in a different storage buffer formulation.



IP result of anti-PPP3CA (IP:13422-1-AP, 4ug; Detection:13422-1-AP 1:5000) with mouse brain tissue lysate 1840 ug. This data was developed using the same antibody clone with 13422-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13422-1-AP (PPP3CA antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 13422-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using PPP3CA antibody (13422-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). This data was developed using the same antibody clone with 13422-1-PBS in a different storage buffer formulation.