For Research Use Only

PPP3CA Monoclonal antibody

Catalog Number: 68163-1-Ig



Basic Information

Catalog Number: GenBank Accession Number:

68163-1-lg BC025714 Protein A purification GeneID (NCBI): Size: CloneNo.:

150ul, Concentration: 1000 ug/ml by 5530 2A5C1 Nanodrop:

UNIPROT ID: Recommended Dilutions: Q08209 WB 1:5000-1:50000

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

Isotype: protein phosphatase 3 (formerly 2B), lgG2b catalytic subunit, alpha isoform

Immunogen Catalog Number: Calculated MW:

AG32642 59 kDa

Observed MW: 59 kDa

Applications

Tested Applications: WB, IHC, IP, ELISA

Species Specificity:

human, mouse, rat, pig, rabbit

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: SH-SY5Y cells, rabbit skeletal muscle tissue, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue, rat skeletal muscle

Purification Method:

IHC 1:500-1:2000

IP: rat brain tissue.

IHC: human thyroid cancer tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue

Background Information

PPP3CA, also called calcineurin Aq, is the only serine/threonine protein phosphatase under the control of Ca2+/calmodulin, and plays a critical role in the coupling of Ca2+ signals to cellular responses. Ca2+ 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 -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

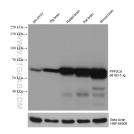
*** 20ul sizes contain 0.1% BSA

in USA), or 1(312) 455-8498 (outside USA)

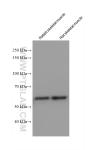
E: proteintech@ptglab.com W: ptglab.com

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

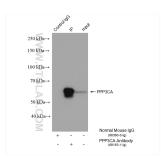
Selected Validation Data



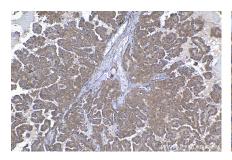
Various lysates were subjected to SDS PAGE followed by western blot with 68163-1-lg (PPP3CA antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading



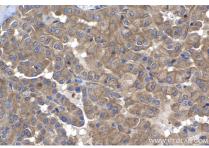
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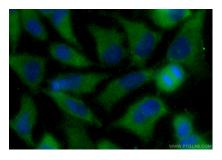
IP result of anti-PPP3CA (IP:68163-1-lg, 5ug; Detection:68163-1-lg 1:4000) with rat brain tissue lysate 1120 ug.



Immunohistochemical analysis of paraffinembedded human thyroid cancer tissue slide using 68163-1-Ig (PPP3CA antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human thyroid cancer tissue slide using 68163-1-Ig (PPP3CA antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PPP3CA antibody (68163-1-Ig, Clone: 2A5C1) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).