For Research Use Only

PPP3CA Monoclonal antibody, PBS Only

Catalog Number: 68163-1-PBS



Basic Information

Catalog Number:

GenBank Accession Number: BC025714

Purification Method:

68163-1-PBS

GeneID (NCBI):

Protein A purification

Size:

CloneNo.: 2A5C1

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

5530

UNIPROT ID:

Source:

Q08209

Mouse

Full Name: protein phosphatase 3 (formerly 2B),

Isotype: lgG2b

catalytic subunit, alpha isoform

Immunogen Catalog Number:

Calculated MW:

AG32642

59 kDa Observed MW:

59 kDa

Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

human, mouse, rat, pig, rabbit

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 $type\ conversion.\ It\ is\ also\ involved\ in\ osteoclast\ regulation,\ regulating\ bone\ formation\ through\ an\ effect\ on\ and\ of\ the conversion\ of\ the\ of$ osteoblast differentiation.

Storage

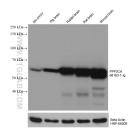
Storage:

Store at -80°C. Storage Buffer:

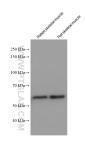
PBS Only

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

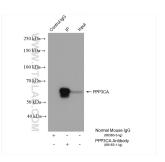
Selected Validation Data



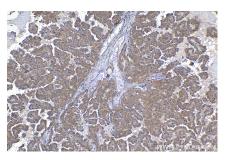
Various lysates were subjected to SDS PAGE followed by western blot with 68163-1-Ig (PPP3CA antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control. This data was developed using the same antibody clone with 68163-1-PBS in a different storage buffer formulation.



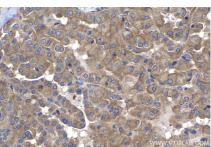
Various lysates were subjected to SDS PAGE followed by western blot with 68163-1-lg (PPP3CA antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68163-1-PBS in a different storage buffer formulation.



IP result of anti-PPP3CA (IP:68163-1-Ig, 5ug; Detection:68163-1-Ig 1:4000) with rat brain tissue lysate 1120 ug. This data was developed using the same antibody clone with 68163-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human thyroid cancer tissue slide using 68163-1-lg (PPP3CA antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68163-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human thyroid cancer tissue slide using 68163-1-lg (PPP3CA antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68163-1-PBS in a different storage buffer formulation.