

For Research Use Only

PPP3CA Monoclonal antibody

Catalog Number: 68163-1-Ig



Basic Information

Catalog Number: 68163-1-Ig	GenBank Accession Number: BC025714	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5530	CloneNo.: 2A5C1
Source: Mouse	Full Name: protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG2b	Calculated MW: 59 kDa	
Immunogen Catalog Number: AG32642	Observed MW: 59 kDa	

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human, Rat, Mouse, Rabbit, Pig

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

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 -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

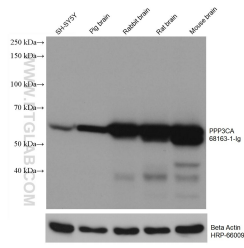
For technical support and original validation data for this product please contact:

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

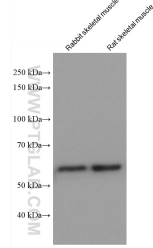
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Selected Validation Data



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.



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