

For Research Use Only

PPP3CA-specific Polyclonal antibody



Catalog Number: 55147-1-AP

Basic Information

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| Catalog Number: 55147-1-AP | GenBank Accession Number: NM_000944 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 300 µg/ml by Nanodrop and 220 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 5530 | Recommended Dilutions: WB 1:500-1:1000 |
| Source: Rabbit | Full Name: protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform | |
| Isotype: IgG | Calculated MW: 59 kDa | |
| | Observed MW: 59 kDa | |

Applications

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| Tested Applications: WB, ELISA | Positive Controls: WB : mouse brain tissue, mouse pancreas tissue |
| 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. This antibody is specific to PPP3CA.

Storage

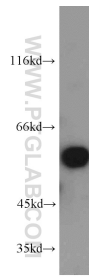
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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)
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 brain tissue were subjected to SDS PAGE followed by western blot with 55147-1-AP (PPP3CA-specific antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.