

For Research Use Only

CaMKII gamma-Specific Polyclonal antibody



Catalog Number: 55140-1-AP

2 Publications

Basic Information

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|--|---|--|
| Catalog Number: 55140-1-AP | GenBank Accession Number: NM_001222 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 600 µg/ml by Nanodrop and 587 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 818 | Recommended Dilutions: WB 1:500-1:3000 IHC 1:20-1:200 |
| Source: Rabbit | Full Name: calcium/calmodulin-dependent protein kinase II gamma | |
| Isotype: IgG | Calculated MW: 65 kDa | |
| | Observed MW: 45-65 kDa | |

Applications

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| Tested Applications: IHC, WB, ELISA | Positive Controls: |
| Cited Applications: WB | WB : mouse brain tissue, |
| Species Specificity: human, mouse, rat | IHC : human skeletal muscle tissue, |
| Cited Species: human | |

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

CaMKII gamma, also named as CAMKG, belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family and CaMK subfamily. It is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. CaMK2 is a Ca²⁺-signaling intermediate that contains α , β , γ and δ subunits. The antibody is specific to CAMK2G.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------|-----------|---------------------|-------------|
| Ya Peng | 33761465 | Aging (Albany NY) | WB |
| Qingfeng Yu | 31247466 | Biomed Pharmacother | WB |

Storage

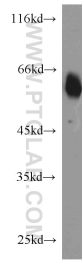
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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.

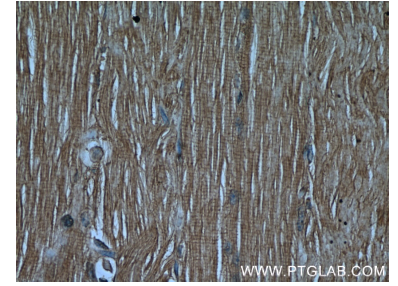
Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 55140-1-AP (CaMKII gamma-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 55140-1-AP (CaMKII gamma-Specific antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 55140-1-AP (CaMKII gamma-Specific antibody) at dilution of 1:50 (under 40x lens).