

For Research Use Only

CAMK2G Monoclonal antibody

Catalog Number: 68519-1-Ig



Basic Information

| | | |
|--|---|---|
| Catalog Number: 68519-1-Ig | GenBank Accession Number: BC034044 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 818 | CloneNo.: 1C12H10 |
| Source: Mouse | UNIPROT ID: Q13555 | Recommended Dilutions: WB 1:5000-1:50000 |
| Isotype: IgG1 | Full Name: calcium/calmodulin-dependent protein kinase II gamma | |
| Immunogen Catalog Number: AG23180 | Calculated MW: 527 aa, 59 kDa | |
| | Observed MW: 64 kDa | |

Applications

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|---|---|
| Tested Applications: WB, ELISA | Positive Controls: |
| Species Specificity: human, mouse, rat, pig, rabbit | WB : PC-3 cells, pig brain tissue, LNCaP cells, HCT 116 cells, rabbit brain tissue, rat brain tissue, mouse brain tissue |

Background Information

CaMKII gamma, also named CAMKG or CAMK2G, belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family, and CaMK subfamily. CAMK2 is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. CAMK2G is expressed in human beta cells as a candidate gene for Type II (non-insulin-dependent) diabetes mellitus. Some studies can be used to assess the role of CAMK2G in the susceptibility to Type II diabetes (PMID: 12032636). CAMK2G has some isoforms with the MW of 55-66 kDa and this antibody can recognize all the isoforms of CAMK2G. This antibody may have cross-reaction with CAMK2A/B/D due to the high homology.

Storage

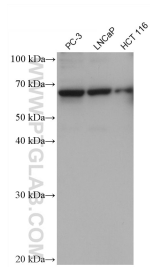
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

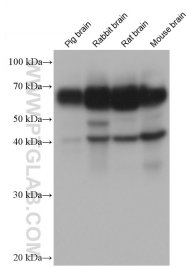
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68519-1-Ig (CAMK2G antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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