

# CAMK2G Monoclonal antibody

Catalog Number: 68519-1-Ig

## Basic Information

**Catalog Number:**

68519-1-Ig

**Size:**

1000 ug/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG23180

**GenBank Accession Number:**

BC034044

**GeneID (NCBI):**

818

**UNIPROT ID:**

Q13555

**Full Name:**calcium/calmodulin-dependent  
protein kinase II gamma**Calculated MW:**

527 aa, 59 kDa

**Observed MW:**

64 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1C12H10

**Recommended Dilutions:**

WB 1:5000-1:50000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human, mouse, rat, pig, rabbit

**Positive Controls:**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:**

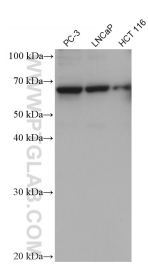
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

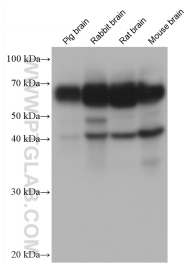
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## 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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