For Research Use Only

CaMKII Gamma Polyclonal antibody

450 ug/ml

Catalog Number: 12666-2-AP

Featured Product

29 Publications

BC034044

818

GeneID (NCBI):

GenBank Accession Number:



Basic Information

Catalog Number: 12666-2-AP Concentration:

UNIPROT ID: Source: Rabbit Q13555 Full Name: Isotype: calcium/calmodulin-dependent

protein kinase II gamma Immunogen Catalog Number:

AG3348

Calculated MW: 527 aa. 59 kDa

Observed MW: 59 kDa

Purification Method:

Antigen affinity purification Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:50-1:500 IF/ICC 1:200-1:800

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA

Cited Applications: WB, IHC, IF, IP Species Specificity: human, mouse, rat **Cited Species:** human, mouse, rat

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

Positive Controls:

WB: SMMC-7721 cells, human brain tissue

IP: mouse heart tissue,

IHC: mouse heart tissue, human pancreas cancer

tissue

IF/ICC: HepG2 cells,

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Chao Li	26317901	Oncotarget	WB
Jamee M Berg	26627310	Neuron	WB
Zhongyang Lv	34006826	Cell Death Dis	WB

Storage

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

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

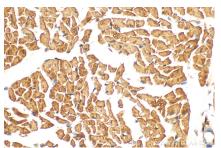
Aliquoting is unnecessary for -20°C storage

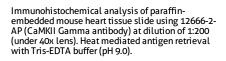
For technical support and original validation data for this product please contact:

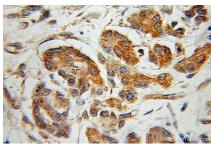
T: 4006900926 E: Proteintech-CN@ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

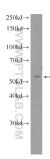
Selected Validation Data



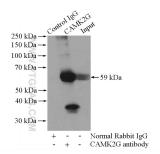




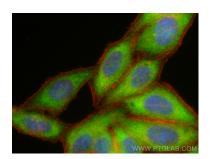
Immunohistochemical analysis of paraffinembedded human pancreas cancer using 12666-2-AP (CaMKII gamma antibody) at dilution of 1:100 (under 10x lens).



SMMC-7721 cells were subjected to SDS PAGE followed by western blot with 12666-2-AP (CaMKII gamma antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-CaMKII Gamma (IP:12666-2-AP, 4ug; Detection:12666-2-AP 1:1000) with mouse heart tissue lysate 3200ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CaMKII Gamma antibody (12666-2-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).