For Research Use Only

CaMKII Gamma Polyclonal antibody

Catalog Number: 12666-2-AP

Featured Product

27 Publications



Basic Information

Catalog Number: GenBank Accession Number:

12666-2-AP BC034044
Size: GeneID (NCBI):

150ul, Concentration: 450 ug/ml by 818

Nanodrop; UNIPROT ID:
Source: Q13555
Rabbit Full Name:

Isotype: calcium/calmodulin-dependent IgG protein kinase II gamma

Immunogen Catalog Number: Calculated MW: AG3348 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

Storage:

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

Storage Buffe

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

Aliquoting is unnecessary for -20°C storage

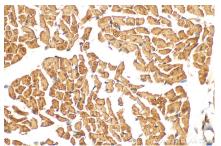
*** 20ul sizes contain 0.1% BSA

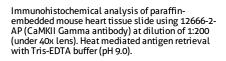
For technical support and original validation data for this product please contact:

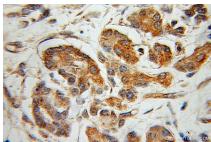
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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.

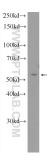
Selected Validation Data



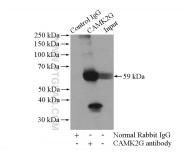




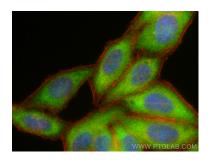
Immunohistochemical analysis of paraffinembedded human pancreas cancer using 12666-2-AP (CaMKII gamma antibody) at dilution of 1:100 (under 10x lens).



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).