

For Research Use Only

CaMKIV Polyclonal antibody

Catalog Number: 13263-1-AP

6 Publications



Basic Information

Catalog Number:

13263-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3922

GenBank Accession Number:

BC025687

GeneID (NCBI):

814

UNIPROT ID:

Q16566

Full Name:

calcium/calmodulin-dependent protein kinase IV

Calculated MW:

473 aa, 52 kDa

Observed MW:

56-65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2400

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

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 : human cerebellum tissue, mouse thymus tissue

IHC : human ovary cancer tissue, human brain tissue, human ovary tumor tissue

Background Information

CaMK4 (Calcium/calmodulin-dependent protein kinase IV) is a multifunctional serine/threonine kinase that regulates gene expression by activating transcription factors in a wide range of immune cells including T cells and antigen-presenting cells. The function of CaMK4 is suggested to be abnormal mainly in systemic lupus erythematosus (SLE), which is characterized by autoantibody production, immune complex formation, and immune dysregulation (PMID: 29252071). CaMKIV can translocate between the nucleus and cytoplasm (PMID: 21301225)

Notable Publications

Author	Pubmed ID	Journal	Application
Chao Li	26317901	Oncotarget	WB
Disi Bai	30542609	Toxicol Res (Camb)	WB
Qingying Tang	34127648	Cell Death Discov	WB,IF

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

*** 20ul sizes contain 0.1% BSA

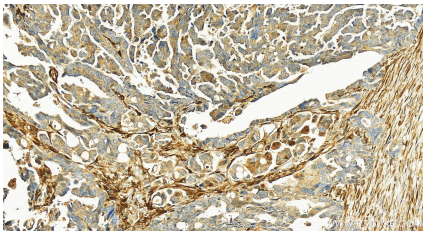
For technical support and original validation data for this product please contact:

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

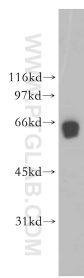
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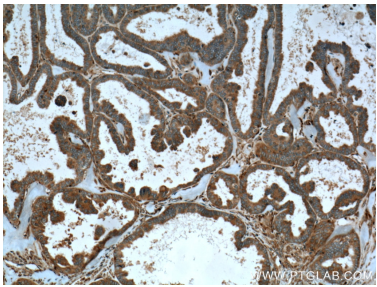
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 13263-1-AP (CaMKIV antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



human cerebellum tissue were subjected to SDS PAGE followed by western blot with 13263-1-AP (CaMKIV antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 13263-1-AP (CaMKIV antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).