

For Research Use Only

CAMK2 Monoclonal antibody, PBS Only



Catalog Number: 66843-1-PBS

Basic Information

| | | |
|-------------------------------------|---|--|
| Catalog Number: 66843-1-PBS | GenBank Accession Number: BC040457 | Purification Method: Protein A purification |
| Size: 1 mg/ml | GeneID (NCBI): 815 | CloneNo.: 1E3B3 |
| Source: Mouse | UNIPROT ID: Q9UQM7 | |
| Isotype: IgG1 | Full Name: calcium/calmodulin-dependent protein kinase II alpha | |
| Immunogen Catalog Number: AG4736 | Calculated MW: 478 aa, 54 kDa | |
| | Observed MW: 45-60 kDa | |

Applications

Tested Applications:
WB, IHC, IF, ELISA

Species Specificity:
Human, Mouse, Rat, Pig

Background Information

CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. It is a member of the NMDAR signaling complex in excitatory synapses it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity. This antibody can recognize all the members of CAMK2 family.

Storage

Storage:
Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only

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

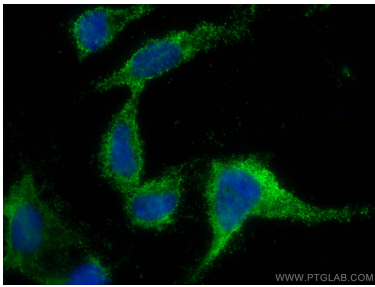
T: 4006900926

E: Proteintech-CN@ptglab.com

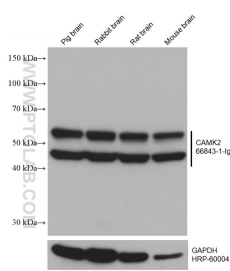
W: ptgcn.com

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

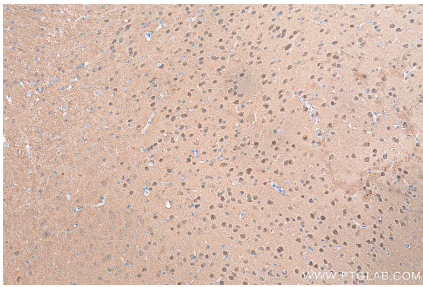
Selected Validation Data



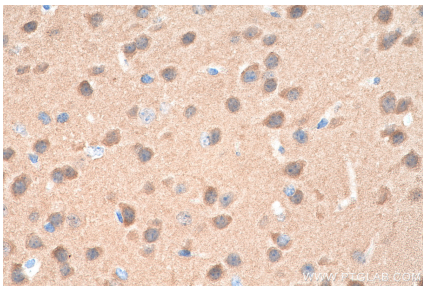
Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using CAMK2 antibody (66843-1-Ig, Clone: 1E3B3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66843-1-PBS in a different storage buffer formulation.



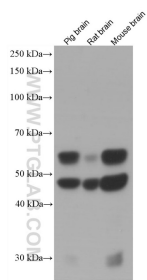
Various lysates were subjected to SDS PAGE followed by western blot with 66843-1-Ig (CAMK2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 66843-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66843-1-Ig (CAMK2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66843-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66843-1-Ig (CAMK2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66843-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 66843-1-Ig (CAMK2A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66843-1-PBS in a different storage buffer formulation.