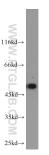
CaMKII alpha-S antibody Catalog Number:20666-1-AF		clonal	ons	Antibodies ELISA kits Proteins www.ptglab.com
Basic Information	Catalog Number: 20666-1-AP Concentration: 700 ug/ml Source: Rabbit Isotype: IgG	NM_015981 GenelD (NCBI) 815 UNIPROT ID: Q9UQM7 Full Name:	odulin-dependent : II alpha V:	Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200 IF-P 1:50-1:500 IF/ICC 1:50-1:500
Applications	Tested Applications:Positive ContWB, IHC, IF/ICC, IF-P, IP, ELISAWB : HEK-293Cited Applications:IP : HEK-293 cWB, CoIPIHC : human tSpecies Specificity:IHC : human thumanIF-P : mouse tCited Species:IF/ICC : SH-S'humanNote-IHC: suggested antigen retrieval withTE buffer pH 9.0; (*) Alternatively, antigenretrieval may be performed with citrate			93 cells, 5 cells, n brain tissue, e brain tissue,
Background Information	buffer pH 6.0 CaMKII alpha, also named CAMKA and KIAA0968, belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family, and CaMK subfamily. 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 is specific to CAMK2A.			
Notable Publications	Author You Wang Huanliang Liu Wenfeng Liu	Pubmed ID 34642320 31829301 31242498	Journal Cell Death Dis Sci Total Environ Gerontology	Application WB,CoIP WB WB
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20	d 50% glycerol pH 7	7.3.	

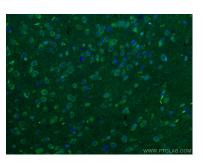
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

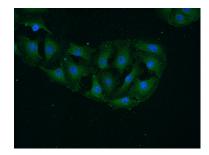
Selected Validation Data



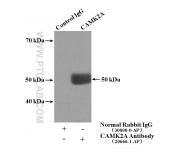
HEK-293 cells were subjected to SDS PAGE followed by western blot with 20666-1-AP (CaMKII alpha-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



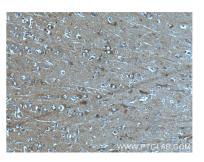
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 20666-1-AP (CaMKII alpha-Specific antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



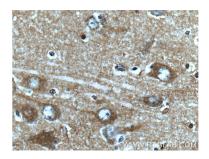
Immunofluorescent analysis of (-20 $^{\circ}$ Ethanol) fixed SH-SY5Y cells using 20666-1-AP (CaMKII alpha-Specific antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-CaMKII alpha-Specific (IP:20666-1-AP, 4ug; Detection:20666-1-AP 1:1000) with HEK-293 cells lysate 1480ug.



Immunohistochemical analysis of paraffinembedded human brain tissue slide using 20666-1-AP (CaMKII alpha-Specific antibody at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human brain tissue slide using 20666-1-AP (CaMKII alpha-Specific antibody at dilution of 1:50 (under 40x lens).