

Rabbit Anti-Phospho-CaMKII (Thr286)/AF350 Conjugated antibody

SL1647R-AF350

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| Product Name | Anti-Phospho-CaMKII (Thr286)/AF350 |
| Chinese Name | AF350 标记的磷酸化钙/钙调素依赖蛋白激酶 2 α 抗体 phospho-CaMK2 alpha (Thr286); phospho-CaMK2 α (Thr286);CaMKII(Phospho-Thr286); alpha CaMKII; Calcium / Calmodulin Dependent Protein Kinase II G; Calcium calmodulin dependent protein kinase CaM kinase II alpha; Calcium calmodulin dependent protein kinase II alpha-B subunit; Calcium calmodulin dependent protein kinase II; Calcium/calmodulin dependent protein kinase II alpha; Calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha; Calcium/calmodulin-dependent protein kinase II alpha; Calcium/calmodulin-dependent protein kinase II-alpha; |
| Alias | Calcium/calmodulin-dependent protein kinase type II subunit alpha; Calcium/calmodulin-dependent protein kinase type IIA; CaM kinase II alpha chain; CaM kinase II alpha subunit; CaM kinase II beta chain; CaM kinase II beta subunit; CaM kinase II delta chain; CaM kinase II delta subunit; CaM kinase II subunit alpha; CAM2; CaMK II alpha subunit; CaMK II beta subunit; CaMK II delta subunit; CaMK-II subunit alpha; CAMK2A; CAMK2B; CAMK2D; CAMKA; CAMKB; CaMKII; EC 2.7.11.17; KIAA0968; MGC123320; MGC139375; MGC155201; mKIAA0968; PK2CDD; PKCCD; R74975; zgc:112538; zgc:123320. |
| Product Type | Phosphorylated anti |
| Research Area | Tumour Cardiovascular Cell biology Neurobiology Signal transduction Kinases and Phosphatases The new supersedes the old |
| Immunogen Species | Rabbit |
| Clonality | Polyclonal |
| React Species | Human,Rat(predicted:Mouse,Chicken,Rabbit,Sheep) |
| Applications | not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight | 54kDa |
| Form | Lyophilized or Liquid |



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| Concentration | 1mg/ml |
| immunogen | KLH conjugated Synthesised phosphopeptide derived from human CaMK2 alpha around the phosphorylation site of Thr286 |
| Lsotype | IgG |
| Purification | affinity purified by Protein A |
| Storage Buffer | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol |
| Storage | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| Product Detail | <p>background: Ca²⁺/CalmodulinDependent Protein Kinase II (CaM Kinase II) is a multifunctional calcium and calmodulindependent protein kinase that mediates cellular responses to a wide variety of intercellular signals. CaM Kinase II has been shown to regulate diverse cellular functions including synaptic plasticity, neurotransmitter synthesis and release, gene expression, ion channel function, carbohydrate metabolism, cytoskeletal function, and Ca²⁺homeostasis. Phosphorylation of Thr286 on the kinase produces an autonomously active form of CaM Kinase II. Autophosphorylation of Thr305 inhibits the activity CaM Kinase II. Phosphorylation at this site appears to reduce the association of CaM Kinase II with the PSD and reduce LTP and learning.</p> <p>Function: CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity.</p> <p>Subunit: CAMK2 is composed of four different chains: alpha, beta, gamma, and delta. The different isoforms assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. Interacts with BAALC, MPDZ, SYN1, CAMK2N2 and SYNGAP1.</p> <p>Subcellular Location: Cell junction, synapse, presynaptic cell membrane. Cell junction, synapse. Note=Postsynaptic lipid rafts.</p> <p>Similarity: Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase</p> |

family. CaMK subfamily.
Contains 1 protein kinase domain.

Database links:

[Entrez Gene: 282162](#) Cow

[Entrez Gene: 525416](#) Cow

[Entrez Gene: 530719](#) Cow

[Entrez Gene: 532713](#) Cow

[Entrez Gene: 815](#) Human

[Entrez Gene: 816](#) Human

[Entrez Gene: 817](#) Human

[Entrez Gene: 818](#) Human

[Entrez Gene: 108058](#) Mouse

[Entrez Gene: 12322](#) Mouse

[Entrez Gene: 12323](#) Mouse

[Entrez Gene: 12325](#) Mouse

[Entrez Gene: 171140](#) Rat

[Entrez Gene: 24245](#) Rat

[Entrez Gene: 24246](#) Rat

[Entrez Gene: 25400](#) Rat

[Omim: 114078](#) Human

[SwissProt: Q2HJF7](#) Cow

[SwissProt: Q3MHJ9](#) Cow

[SwissProt: Q13554](#) Human

[SwissProt: Q13555](#) Human

[SwissProt: Q13557](#) Human

[SwissProt: Q9UQM7](#) Human

[SwissProt: P11798](#) Mouse

[SwissProt: P28652](#) Mouse



[SwissProt: Q6PHZ2](#) Mouse

[SwissProt: Q923T9](#) Mouse

[SwissProt: P08413](#) Rat

[SwissProt: P11275](#) Rat

[SwissProt: P11730](#) Rat

[SwissProt: P15791](#) Rat

[Unigene: 725992](#) Human

[Unigene: 131530](#) Mouse

[Unigene: 107499](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.