

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit Anti CAMKII (pThr305)

With HRP-Conjugated Second Antibody

Catalog No.Target SpeciesIsotypeDS-PB-00348RatIgG

Preparation

Synonyms: Calcium/Calmodulin-Dependent Kinase II

Preparation: Antisera to phosphorylated Rat CaMK II were raised by repeated immunizations of rabbit with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography. **Immunogen:** Synthetic phosphopeptide corresponding to an amino acid sequence within CaMK II,

which includes phosphorylated Thr305.

Specificity

DS-PB-00348 is specific for rat calcium/calmodulin kinase II (CaMK II) alpha and CaMKII beta, when phosphorylated at Thr305. CaMK II is a multi-functional calcium and calmodulin-dependent kinase which has an important role in cell signalling. Phosphorylation at Thr305 results in inhibition of CaMK II kinase activity.

Western Blot: DS-PB-00348 detects bands of approximately 50 and 60 kDa in rat brain lysates corresponding to CaMK II alpha and CaMK II beta respectively.

Species Cross Reactivity: Based on sequence similarity, is expected to react with Mouse, Zebrafish, Dog, Xenopus, Human, Bovine, Chicken. *Reactivity and working conditions may vary between species.

Formulation

Product Type: Polyclonal Antibody **Product Form:** Serum - liquid

Preservative Stabilizers: 0.09% Sodium Azide

Storage

Store at +4°C or at -20°C if preferred. This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 12 months from date of dispatch.

The products are furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting	•			1:1000
Immunohistology - frozen				
Immunohistology - paraffin				
Flow Cytometry				

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

References

1. Elgersma, Y. *et al.* (2002) Inhibitory autophosphorylation of CaMKII controls PSD association, plasticity and learning. Neuron. 36: 493-505.