

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human CaM Kinase II γ in direct ELISAs. Detects human CaM Kinase II α, β, γ, and δ in Western blots. Detects human, mouse, and rat CaM Kinase II in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 990714
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CaM Kinase II γ Ala448-Gln558 Accession # Q13555
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Calcium/calmodulin-dependent protein kinase type II gamma (CaMKIIγ) belongs to a family of multifunctional serine/threonine kinases activated in response to increases in intracellular calcium. There are 4 CaMKII isozymes, α, β, γ, and δ, and each can yield several isoforms through alternative splicing. CaMKII isoforms assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. The widely expressed CaMKIIγ from human, mouse, and rat share 100% aa sequence identity within aa 448-558 of isoform 1.

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