

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CaM Kinase II δ isoforms. No cross-reactivity with recombinant human CaM Kinase II α , CaM Kinase II β , or CaM Kinase II γ is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CaM Kinase II δ Ala402-Lys478 Accession # Q13557
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
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 (CaMKII) 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. Each CaMKII protein assembles into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. CaMKII δ expression is ubiquitous, and has been identified as the predominant isozyme in the heart, where it is implicated in the development of cardiac hypertrophy and heart failure.

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