Human/Rat CaMKKα Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4536T
100 µg

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects endogenous human and rat CaMKKα in Western blots. In Western blots, this antibody does not cross-react with recombinant human CaMKKβ.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CaMKKα Met1-Ser132 Accession # Q8N5S9
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.

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

The calcium/calmodulin (CaM) kinase signaling cascade includes the upstream kinases CaM kinase kinase α (CaMKKα; also known as CaMKK1) and CaMKKβ (CaMKK2), and their substrates, the output kinases CaMKI and CaMKIV. Largely by activation of the transcription factor CREB, the CaM kinase cascade is implicated in neuronal development and long-term memory formation. In addition, CaMKKα is known to modulate skeletal muscle glucose uptake, and is upregulated during retinoic acid-induced neutrophil maturation.

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475