

DESCRIPTION

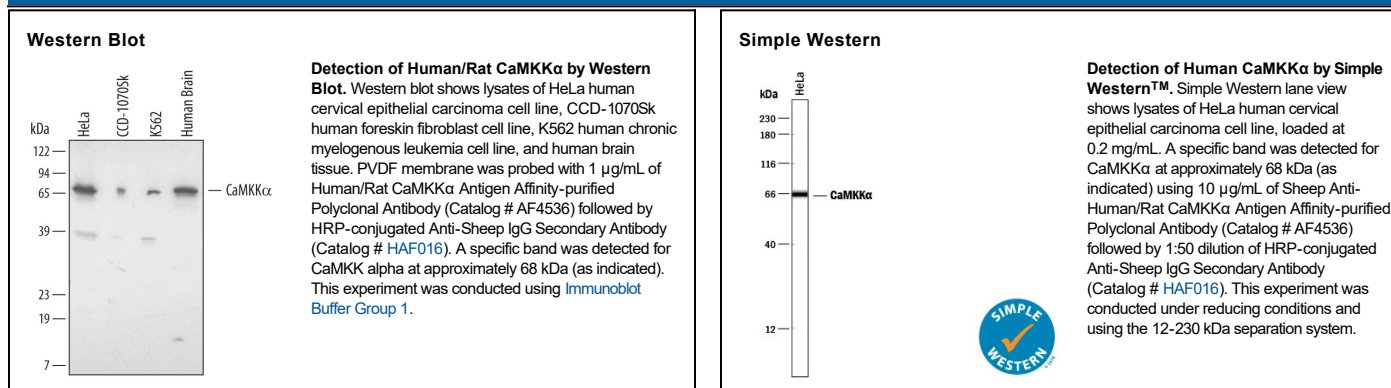
Species Reactivity	Human/Rat
Specificity	Detects endogenous human and rat CaMKK α in Western blots. In Western blots, this antibody does not cross-react with recombinant human CaMKK β .
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CaMKK α Met1-Ser132 Accession # Q8N5S9
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 μ g/mL	See Below
Simple Western	10 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The calcium/calmodulin (CaM) kinase signaling cascade includes the upstream kinases CaM kinase kinase α (CaMKK α ; also known as CaMKK1) and CaMKK β (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, CaMKK α is known to modulate skeletal muscle glucose uptake, and is upregulated during retinoic acid-induced neutrophil maturation.