

Product datasheet for AP55930PU-S

OriGene Technologies, Inc.

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CAMKIV (CAMK4) pThr196/200 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WE

Recommended Dilution: Western blot: 1:500~1:1000.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Immunogen: Peptide sequence around phosphorylation site of threonine 200 (M-K-T(p)-V-C) derived from

Human CaMK4 or threonine 196 (M-K-T(p)-V-C) derived from Mouse CaMK4 (KLH-conjugated)

Specificity: The antibody detects endogenous level of CaMK4 only when phosphorylated at

threonine196/threonine 200.

Formulation: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,

0.02% sodium azide and 50% glycerol

State: Aff - Purified State: Liquid Ig fraction

Concentration: lot specific

Purification: Affinity chromatography using epitope-specific peptide

Conjugation: Unconjugated

Storage: Upon receipt, store undiluted (in aliquots) at -20°C.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 60 kDa

Gene Name: calcium/calmodulin-dependent protein kinase IV

Database Link: Entrez Gene 814 Human

Q16566

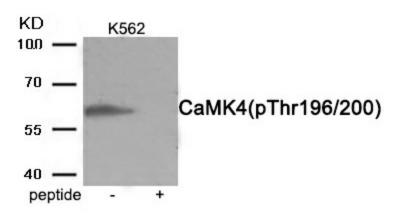


Background:

Calcium/calmodulin-dependent protein kinase that operates in the calcium-triggered CaMKK-CaMK4 signaling cascade and regulates, mainly by phosphorylation, the activity of several transcription activators, such as CREB1, MEF2D, JUN and RORA, which play pivotal roles in immune response, inflammation, and memory consolidation. In the thymus, regulates the CD4+/CD8+ double positive thymocytes selection threshold during T-cell ontogeny. In CD4 memory T-cells, is required to link T-cell antigen receptor (TCR) signaling to the production of IL2, IFNG and IL4 (through the regulation of CREB and MEF2).

Synonyms: CaMK IV, CAM kinase-GR

Product images:



Western blot analysis of extracts from K562 cells treated with H2O2 using Phospho-CaMK4 (Thr196/200) Antibody.The lane on the right is treated with the antigen-specific peptide.