

Product datasheet for AP21111PU-M

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OriGene Technologies, Inc.

CAMK2B Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500 - 1/1000.

Immunohistochemistry on paraffin sections: 1/50 - 1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit
Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of CaMKIIbeta/gamma/delta protein.

(region surrounding Ser280)

Formulation: Phosphate buffered saline (PBS), pH 7.2.

State: Aff - Purified

State: Liquid purified Ig fraction Preservative: 0.05% sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity chromatography (> 95% (by SDS-PAGE)

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 50, 65 kDa

Gene Name: calcium/calmodulin dependent protein kinase II beta

Database Link: Entrez Gene 12323 MouseEntrez Gene 24245 RatEntrez Gene 816 Human

Q13554



CAMK2B Rabbit Polyclonal Antibody - AP21111PU-M

Background: The Ca2+/calmodulin-dependent protein kinases (CaM kinases) comprise a structurally

related subfamily of serine/threonine kinases which include CaMKI, CaMKII and CaMKIV. CaMKII is an ubiquitously expressed serine/threonine protein kinase that is activated by Ca2+

and calmodulin (CaM) and has been implicated in regulation of the cell cycle and

transcription. There are four CaMKII isozymes, designated alpha, beta, gamma and delta, which may or may not be coexpressed in the same tissue type. CaMKIV is stimulated by Ca2+ and CaM but also requires phosphorylation by a CaMK for full activation. Stimulation of the T cell receptor CD3 signaling complex with an anti-CD3 monoclonal antibody leads to a 10–40-fold increase in CaMKIV activity. An additional kinase, CaMKK, functions to activate CaMKI through the specific phosphorylation of the regulatory threonine residue at position 177.

Synonyms: CAM2, CAMKB, CaM-kinase II beta chain, CaM kinase II subunit beta, CaMK-II subunit beta,

CAMKIIb

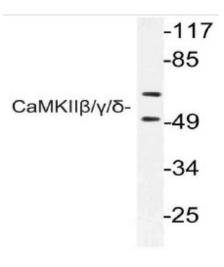
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Calcium signaling pathway, ErbB signaling pathway, Glioma, GnRH signaling pathway, Long-

term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction,

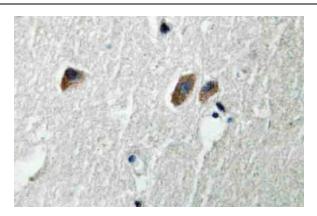
Oocyte meiosis, Wnt signaling pathway

Product images:



Western blot (WB) analysis of CaMKIIbeta/gamma/delta antibody (Cat.-No.: [AP21111PU-N]) in extracts from rat brain cells.





Immunohistochemistry (IHC) analyzes of CaMKIIbeta/gamma/delta antibody (Cat.-No.: [AP21111PU-N]) in paraffin-embedded human brain tissue.