

Product datasheet for AP20879PU-N

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OriGene Technologies, Inc.

CAMK2A pThr286 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

Immunogen: Synthetic phosphopeptide derived from human CaMKIIα around the phosphorylation site of

Threonine 286.

Specificity: This antibody detects endogenous levels of p-CaMK2-a protein only when phosphorylated at

Thr286.

Formulation: Phosphate buffered saline (PBS), pH 7.2, 50% Glycerol

State: Aff - Purified

State: Liquid purified lg fraction Preservative: 0.02% 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: ~ 54 kDa

Gene Name: calcium/calmodulin dependent protein kinase II alpha

Database Link: Entrez Gene 815 Human

Q9UQM7



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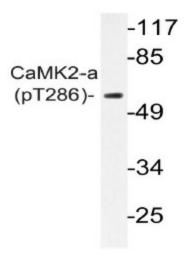
Background:

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 co-expressed in the same tissue type. CaMKIIalpha is autophosphorylated on Thr 286 upon the binding of the Ca2+/CaM complex to the autoinhibitory domain of CaMKII. This process is called Ca2+/CaM trapping, which is thought to be involved in the synaptic encoding of information.

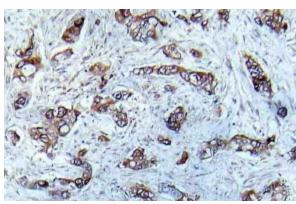
Synonyms:

CAMKA, KIAA0968, CaM-kinase II alpha chain, CaM kinase II subunit alpha, CaMK-II subunit alpha

Product images:



Western blot (WB) analysis of p-CaMK2-a antibody in extracts from A431 EGF cells



Immunohistochemistry (IHC) analyzes of p-CaMK2-a antibody in paraffin-embedded human breast carcinoma tissue.