

## Product datasheet for **AM31727PU-N**

### **CAMKIV (CAMK4) Mouse Monoclonal Antibody [Clone ID: 1A3]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	1A3
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Immunofluorescence:</b> 10 µg/ml. <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Western Blot:</b> 1/500 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	CAMK4 antibody was raised against CAMK4 (AAH25687, 1 a.a. ~ 474 a.a) full length recombinant protein with GST tag.
Specificity:	Recognizes CAMK4
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C or -80°C. Avoid freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Gene Name:	calcium/calmodulin-dependent protein kinase IV
Database Link:	<a href="#">Entrez Gene 814 Human</a> <a href="#">Q16566</a>



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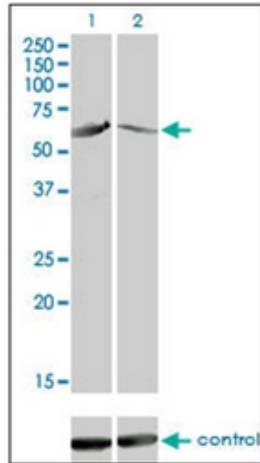
**Background:** CAMK4 belongs to the CAMK1 subfamily of Serine/Threonine Kinases. CAMK4 has been implicated in long term memory, regulation of CRE dependent transcription, and in the control of mitochondrial biogenesis in skeletal muscle. Alternative splicing of CAMK4 generates a testis-specific calspermin transcript.

**Synonyms:** CaMK IV, CAM kinase-GR

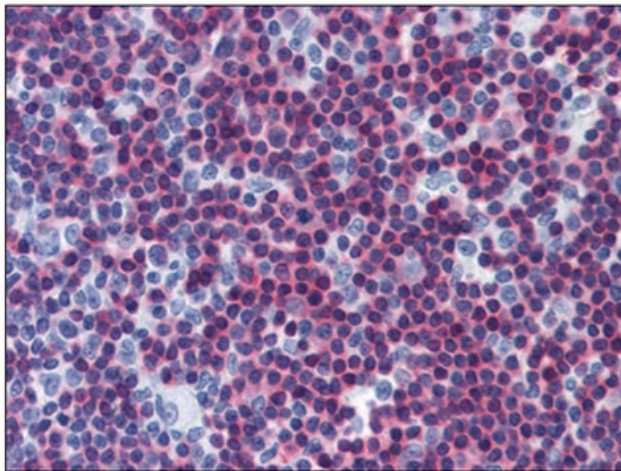
**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Calcium signaling pathway, Long-term potentiation, Neurotrophin signaling pathway

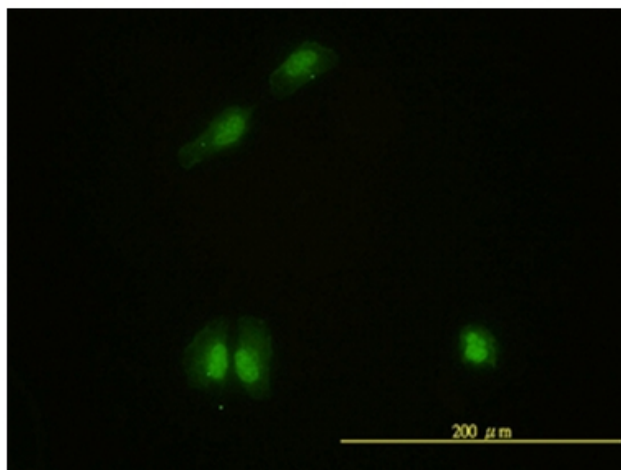
**Product images:**



RNA interference: Western blot analysis of CAMK4 over-expressed 293 cell line, cotransfected with CAMK4 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with CAMK4 antibody. GAPDH (36.1 kDa) used as specificity and loading control.



Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of monoclonal antibody to CAMK4 on HeLa cell at 10 ug/ml.