


# Anti-CaMK2 beta gamma delta antibody ab79359

2 Images

### Overview

<b>Product name</b>	Anti-CaMK2 beta gamma delta antibody
<b>Description</b>	Rabbit polyclonal to CaMK2 beta gamma delta
<b>Host species</b>	Rabbit
<b>Specificity</b>	Antibody detects endogenous levels of total CaMK2-beta/gamma/delta protein.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthesized non-phosphopeptide derived from human CaMK2-beta/gamma/delta around the phosphorylation site of threonine 287 (Q-E-T <sup>P</sup> -V-E).
<b>Positive control</b>	Human brain tissue and rat brain cell extract
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride</p> <p>Without Mg<sup>2+</sup> and Ca<sup>2+</sup></p>
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab79359 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 73 kDa.
IHC-P		1/50 - 1/100.

## Target

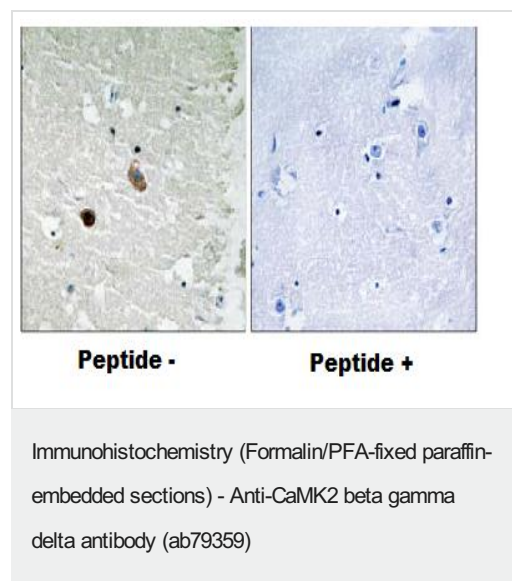
### Relevance

The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. It is possible that distinct isoforms of this chain have different cellular localizations and interact differently with calmodulin. Eight transcript variants encoding eight distinct isoforms have been identified for this gene.

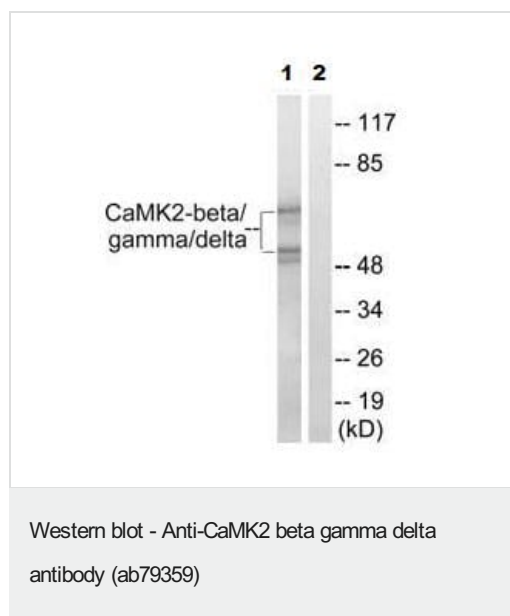
### Cellular localization

Cytoplasmic and Nuclear

## Images



Immunohistochemistry analysis of paraffin-embedded human brain tissue using CaMK2-β/γ/δ (Ab-287) antibody at 1/50-1/100 dilution.



**All lanes :** Anti-CaMK2 beta gamma delta antibody (ab79359) at 1/500 dilution

**Lane 1 :** Rat brain cell extract

**Lane 2 :** Rat brain cell extract with immunising peptide at 10 µg

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 73 kDa

**Observed band size:** ~73 kDa

**Additional bands at:** ~50 kDa. We are unsure as to the identity of these extra bands.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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