

CAMK2B/G Polyclonal Antibody

Catalog No. E-AB-30732

Note: Centrifuge before opening to ensure complete recovery of vial contents.

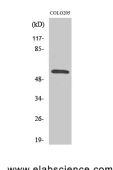
Description

Reactivity	Human,Mouse,Rat
Immunogen	Synthesized peptide derived from the C-terminal region of human CaMKIIβ/γ
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Conjugation	Unconjugated
Buffer	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

Applications Recommended Dilution

WB	1:500-1:2000
IF	1:100-1:300
ELISA	1:20000

Data



Western Blot analysis of COLO205 cells with
CAMK2B/G Polyclonal Antibody
Observed Mw:62kDa
Calculated Mw:63kDa

Preparation & Storage

Storage Store at -20°C. Avoid freeze / thaw cycles.

Background

The multifunctional CAMK2, or Ca²⁺/calmodulin-dependent protein kinase II, is a well known effector of calcium- and calmodulin- mediated functions. It is present in many tissues but is most abundant in the brain. CAMK2 is composed of four different chains: alpha, beta, gamma, and delta. The different isoforms assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. Autophosphorylation plays an important role in the regulation of the kinase activity. CAMK2 is required for synaptic plasticity, as in Long Term Potentiation (LTP), a cellular model for learning and memory. CAMK2B is the beta chain. There are seven named isoforms produced by alternative splicing. The variable region of the CAMK2B protein is encoded by at least 7 exons (V1 to V7). Alternative splicing within this region gives rise to CAMK2B isoforms. CAMK2G is the gamma chain. CAMK2G has six alternatively spliced variants that encode six

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different isoforms. Some of these variants have been identified in human tumors.