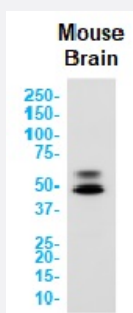


RecomAb™

CAMK2B recombinant monoclonal antibody, clone R05-9G5

Catalog # RAB01542 Size 100 uL

Applications



Western Blot

Western blot analysis of CaMKII in mouse brain lysates using human CaMKII beta recombinant monoclonal antibody, clone R05-9G5 (Cat # RAB01542).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human CaMKII.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CaMKII
Theoretical MW (kDa)	Calculated MW: 73 kD
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at 4°C for short term. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of CaMKII in mouse brain lysates using human CaMKII beta recombinant monoclonal antibody, clone R05-9G5 (Cat # RAB01542).

Gene Info — CAMK2B

Entrez GeneID[816](#)**Protein Accession#**[Q13554](#)**Gene Name**

CAMK2B

Gene Alias

CAM2, CAMK2, CAMKB, MGC29528

Gene Description

calcium/calmodulin-dependent protein kinase II beta

Omim ID[607707](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. The product of this gene is a beta chain. 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. [provided by RefSeq]

Other Designations

CaM kinase II beta subunit|CaM-kinase II beta chain|CaMK-II beta subunit|OTTHUMP00000159355|OTTHUMP00000159356|calcium/calmodulin-dependent protein kinase (CaM kinase) II beta|calcium/calmodulin-dependent protein kinase type II beta chain|proline rich cal

Pathway

- [Calcium signaling pathway](#)

- [ErbB signaling pathway](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Long-term potentiation](#)
- [Melanogenesis](#)
- [Neurotrophin signaling pathway](#)
- [Olfactory transduction](#)
- [Wnt signaling pathway](#)

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Cognition](#)
- [NARP](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)