10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CAMK2B Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant CAMK2B.
Catalog # AT1377a

Product Information

Application	WB, IF
Primary Accession	Q13554
Other Accession	NM_172081
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	6D6
Calculated MW	72678

Additional Information

Gene ID	816
Other Names	Calcium/calmodulin-dependent protein kinase type II subunit beta, CaM kinase II subunit beta, CaMK-II subunit beta, CAMK2B, CAM2, CAMK2, CAMKB
Target/Specificity	CAMK2B (NP_742078, 405 a.a. ~ 502 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CAMK2B Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

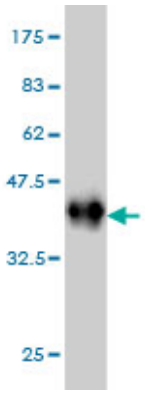
Background

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.

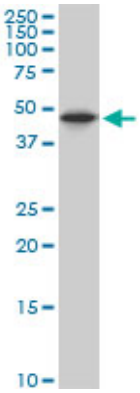
References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Pharmacogenetics of antipsychotic response in the CATIE trial: a candidate gene analysis. Need AC, et al. Eur J Hum Genet, 2009 Jul. PMID 19156168.A common variant in DRD3 receptor is associated with autism spectrum disorder. de Krom M, et al. Biol Psychiatry, 2009 Apr 1. PMID 19058789.Motor protein-dependent transport of AMPA receptors into spines during long-term potentiation. Correia SS, et al. Nat Neurosci, 2008 Apr. PMID 18311135.Genetically encoded probe for fluorescence lifetime imaging of CaMKII activity. Kwok S, et al. Biochem Biophys Res Commun, 2008 May 2. PMID 18302935.

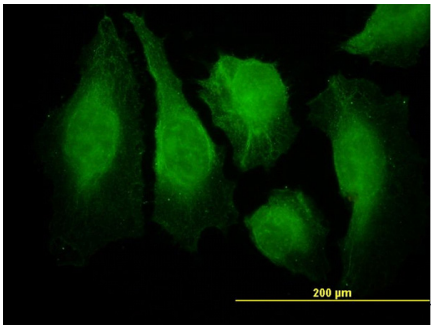
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .



CAMK2B monoclonal antibody (M06), clone 6D6. Western Blot analysis of CAMK2B expression in HeLa((Cat # AT1377a)



Immunofluorescence of monoclonal antibody to CAMK2B on HeLa cell. [antibody concentration 25 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.