

Recombinant

DGRmAb®

CaMKII (DGR14655) Rabbit mAb (PBS Only)

db11726-PBS

Package : 10µg 100µg

Product Name : CaMKII (DGR14655) Rabbit mAb (PBS Only)**Cat.No.:** db11726-PBS**Synonyms** : CAMKA**Application** : WB, IHC, ICC/IF, FC**Reactivity** : Human, Mouse, Rat**Host species** : Rabbit**Background**

The product of this gene belongs to the serine/threonine protein kinases family, and to the Ca(2+)/calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by this gene is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Nov 2008]

Immunogen

A synthetic peptide of human CaMKII

Gene ID

815

Swiss Prot

Q9UQM7

Synonyms

CAMKA

Reactivity

Human, Mouse, Rat

Application

WB, IHC, ICC/IF, FC

Calculated MW

54 kDa

Observed MW

54 kDa

Host species

Rabbit

Clonality

Monoclonal

Clonality No.

DGR14655

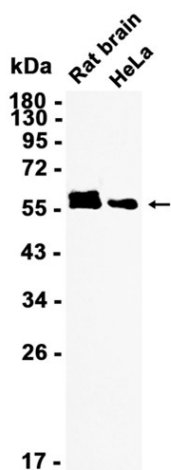
Isotype

IgG

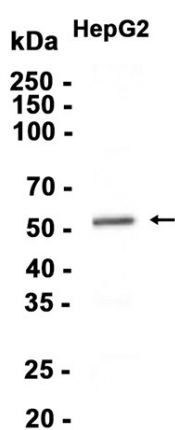
Purity

Affinity Purification

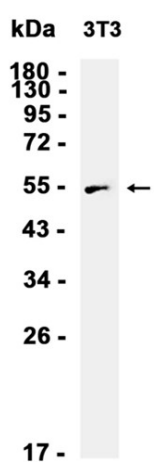
Conjugation	Un-conjugated
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



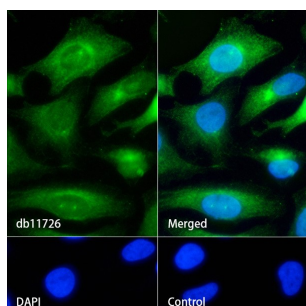
Western blot analysis of extracts from HeLa cells and Rat brain tissue using [db11726](#) at 1:1000.



Western blot analysis of extracts from HepG2 cells using [db11726](#) at 1:2000.



Western blot analysis of extracts from 3T3 cells using [db11726](#) at 1:1000.



Immunofluorescence analysis of HeLa cells labelling CaMKII with [db11726](#).

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with [db11726](#) (1:20) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 ([db10005](#), shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.