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Phospho-Camk2-T286 Rabbit mAb

Catalog No.: AP1637 Recombinant

Basic Information

Observed MW
50 kDa/60 kDa

Calculated MW
51-72 kDa

Category
Primary antibody

Applications
WB,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC3884

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. Several transcript variants encoding distinct isoforms have been identified for this gene.

Recommended Dilutions

WB	1:1000 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Immunogen Information

Gene ID
816/817/818/815

Swiss Prot
Q13554/Q13557/Q13555/Q9UQM7

Immunogen
This information is considered to be commercially sensitive.

Synonyms
CAMKA; MRD53; MRT63; CaMKIIalpha; CaMKIINalpha; CAM2; CAMK2; CAMKB; MRD54; CaMKIIbeta; CAMKD; CAMK; CAMKG; MRD59; CAMK-II; Phospho-Camk2-T286

Product Information

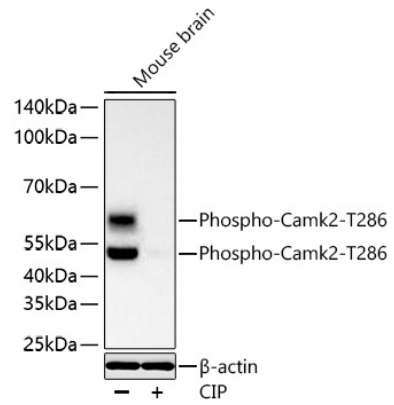
Source
Rabbit

Isotype
IgG

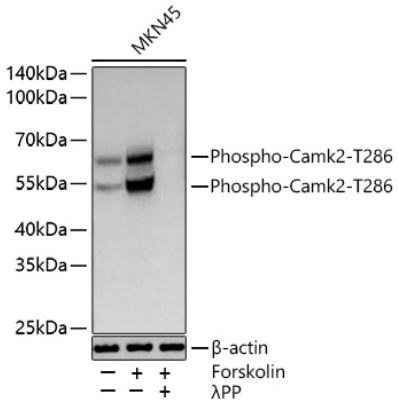
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3

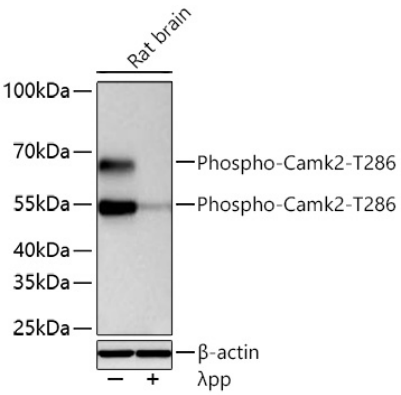
Validation Data



Western blot analysis of lysates from Mouse brain using Phospho-Camk2-T286 Rabbit mAb (AP1637) at 1:2000 dilution incubated overnight at 4℃. Mouse brain treated with CIP (1 U/μL) at 37℃ for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.



Western blot analysis of various lysates using Phospho-Camk2-T286 Rabbit mAb (AP1637) at 1:2000 dilution incubated overnight at 4℃. MKN45 cells were treated with Forskolin (30 μM) at 37℃ for 20 minutes or MKN45 cells were treated with Forskolin (30 μM) at 37℃ for 20 minutes and λpp (2 U/μL) at 30℃ for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



Western blot analysis of lysates from Rat brain using Phospho-Camk2-T286 Rabbit mAb (AP1637) at 1:2000 dilution incubated overnight at 4℃. Rat brain were treated with λpp (2 U/μL) at 30℃ for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.