ARG20520
anti-CaMKII phospho (Thr286) antibody [22B1]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [22B1] recognizes CaMKII phospho (Thr286)
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, ICC/IF, IHC, IP, WB
Specificity	Detects phosphorylated CaMKII from rat tissues. Monoclonal antibody 22B1 (anti-phosphoCaMKII is specific for α and β subunits of CaMKII only when they are phosphorylated at Thr-286/287 (in β).
Host	Mouse
Clonality	Monoclonal
Clone	22B1
Isotype	IgG
Target Name	CaMKII
Species	Rat
Immunogen	Phosphospecific peptide around Thr286 of Rat CaMKII (NP_037052.1).
Conjugation	Un-conjugated
Alternate Names	CAMKA; CaMK-II subunit alpha; Calcium/calmodulin-dependent protein kinase type II subunit alpha; CaM kinase II subunit alpha; EC 2.7.11.17

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent
ICC/IF	1:1000
IHC	1:100
IP	Assay-dependent
WB	1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Rat brain tissue extract.
Observed Size	~50 kDa

Properties

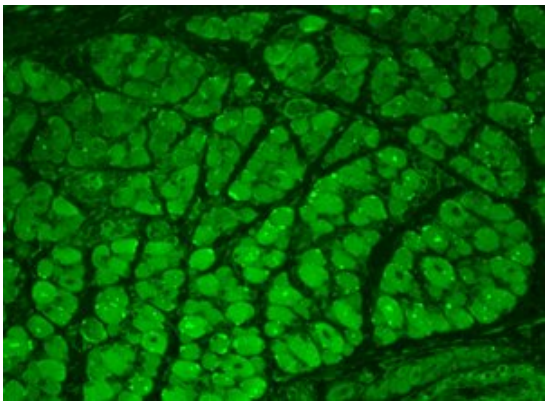
Form	Liquid
Purification	Protein G affinity purified

Buffer	PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

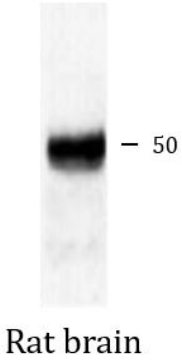
Database links

Images



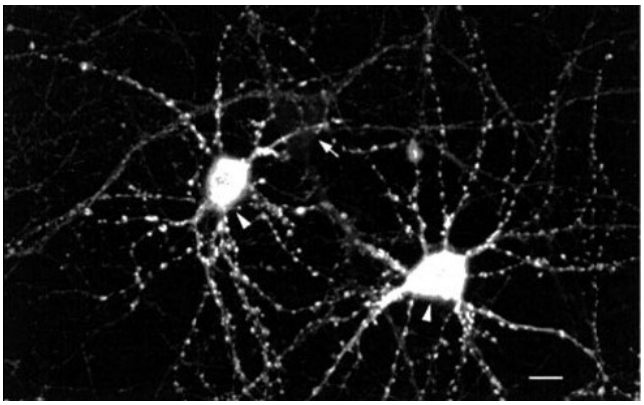
ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1] IHC-P image

Immunohistochemistry: Bouin's fixed paraffin-embedded backskin sections of transgenic mice- muscle, and hair follicle stained with ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1].



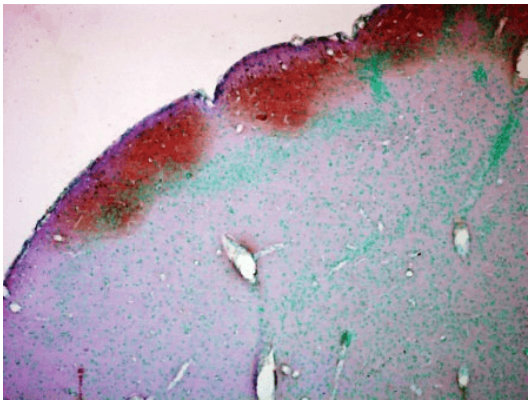
ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1] WB image

Western blot: Rat brain lysate stained with ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1].



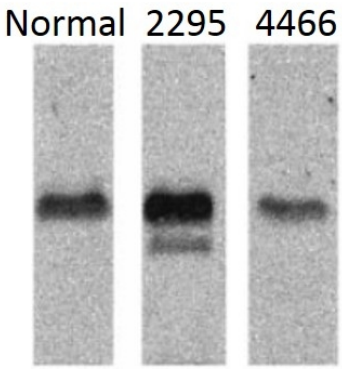
ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1] ICC/IF image

Immunofluorescence: Rat hippocampal neurons stained with ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1].



ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1] IHC image

Immunohistochemistry: Formalin-fixed Human colon carcinoma stained with ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1] at 1:5000 for 12 hours at 4°C. Secondary antibody: Biotin Goat anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 min at RT. Magnification: 40x.



ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1] WB image

Western blot: 1) Ventricles lysate from 14-Day-Old normal Mouse, 2) Ventricles lysate from 14-Day-Old CaM overexpressing transgenic Mouse line 2295, 3) Ventricles lysate from 14-Day-Old CaM-8 (mutant CaM) expressing transgenic Mouse line 4466, stained with ARG20520 anti-CaMKII phospho (Thr286) antibody [22B1]. (PMID: 10935538).