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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

UK Office

Everest Biotech Ltd

Cherwell Innovation Centre
77 Heyford Park
Upper Heyford
Oxfordshire
OX25 5HD
UK

Enquiries:

info@everestbiotech.com

Sales:

sales@everestbiotech.com

Tech support:

support@everestbiotech.com

Tel: +44 (0)1869 238326

Fax: +44 (0)1869 238327

US Office

Everest Biotech c/o Abcore

405 Maple Street, Suite A106
Ramona,
CA 92065
USA

Inquiries:

info@everestbiotech.com

Sales:

usasales@everestbiotech.com

Tech support:

support@everestbiotech.com

Tel: 888-320-4628 (toll-free)

Fax: 888-841-9041

www.everestbiotech.com

**Research Use Only. Not for
diagnostic or therapeutic use.**

EB09376 - Goat Anti-CAMK2 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: CAMK2A, calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha, CAMKA, KIAA0968, CaM kinase II alpha subunit, CaM-kinase II alpha chain, CaMK-II alpha subunit, OTTHUMP00000165787, OTTHUMP00000165788, calcium/calmodulin-dependent protein kinase II alpha-B subunit, calcium/calmodulin-dependent protein kinase IIA, calcium/calmodulin-dependent protein kinase type II alpha chain

Official Symbol: CAMK2A/B

Accession Number(s): NP_057065.2; NP_001280099.1

Human GeneID(s): [815](#) , [816](#)

Non-Human GeneID(s): 12322 (mouse), 25400 (rat)

Important Comments: This antibody is expected to recognize both reported isoforms (NP_057065.2 (CAMK2A) and NP_001280099.1 (CAMK2B)).

Immunogen

Peptide with sequence C-PRTAQSEETRVWHR, from the internal region of the protein sequence according to NP_057065.2; NP_001280099.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.

Western blot: Approx 48-50+60kDa bands observed in Human Cerebral Cortex and Mouse and Rat Brain lysates, corresponding to CAMK2alpha and CAMK2beta respectively and approx. 60kDa in Human Cerebellum lysates (calculated MW of 55.3kDa according to Human NP_057065.2 and 54.1kDa according to Mouse NP_001390241.1 and Rat NP_037052.1 subunit Alpha and 60.4kDa according to Human NP_001280099.1, Mouse NP_031621.3 and Rat NP_068507.2 subunit beta). These molecular weights are routinely observed by other sources, and were successfully blocked by incubation with the immunizing peptide. Recommended concentration 0.1-1µg/ul. Primary incubation 1 hour at room temperature.

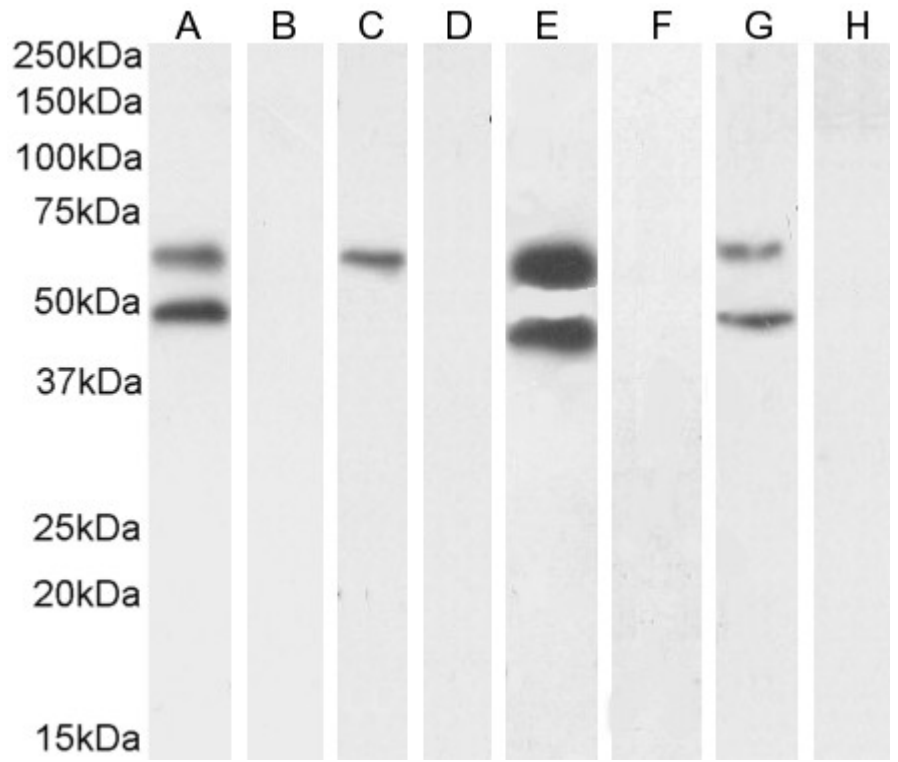
Immunofluorescence: Strong expression of the protein seen in the cytoplasm of Neuro2a cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of Neuro2a cells. Recommended concentration: 10µg/ml.

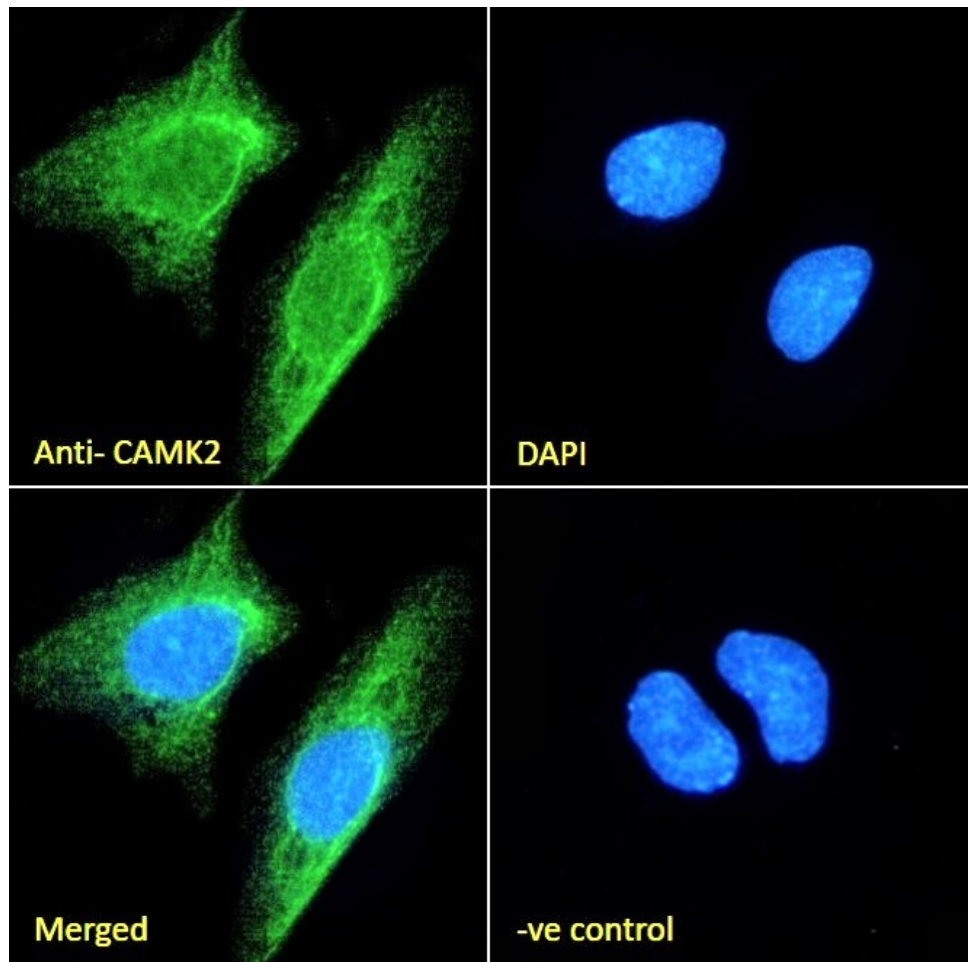
Species Reactivity

Tested: Human, Mouse, Rat

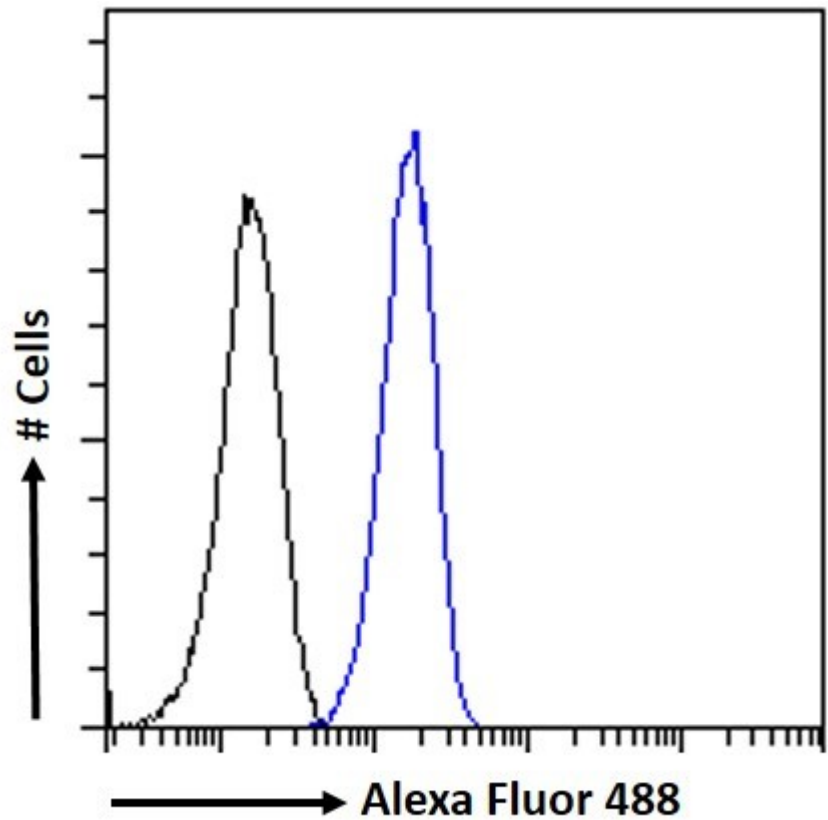
Expected from sequence similarity: Human, Mouse, Rat



EB09376 (1 μ g/ml) staining of Human Cerebral Cortex (A) + peptide (B), (0.5 μ g/ml) Human Cerebellum (C) + peptide (D), and (0.1 μ g/ml) Mouse Brain (E) + peptide (F) and Rat Brain (G) + peptide (H) lysate, (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



EB09376 Immunofluorescence analysis of paraformaldehyde fixed Neuro2a cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB09376 Flow cytometric analysis of paraformaldehyde fixed Neuro2a cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.