

Goat anti-CAMK2A Antibody

Item Number	dAP-1811
Target Molecule	Principle Name: CAMK2A; Official Symbol: CAMK2A; All Names and Symbols: 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 ; Accession Number (s): NP_057065.2; NP_741960.1; Human Gene ID(s): 815; Non-Human GeneID(s): 12322 (mouse) 25400 (rat)
Immunogen	PRTAQSEETRVWHR, is from internal region This antibody is expected to recognize both reported isoforms (NP_057065.2; NP_741960.1).
Applications	Pep ELISA, WB, IHC Species Tested: Human, Mouse, Rat
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied As	lyophilized powder of 50ug or 100ug IgG; Reconstitute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 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.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 64000.
Western Blot	Western Blot: Approx 65kDa bands observed in Human Brain (Cerebellum) and Mouse and Rat Brain lysates and an additional 50kDa in the rodent Brain lysates (calculated MW of 55.3kDa according to Human NP_057065.2 and of 54.1 according to Human NP_741960.1
IHC	Immunohistochemistry: In paraffin embedded Human Brain Cortex shows granular staining in the periphery of pyramidal cell bodies. Recommended concentration: 3-6µg/ml. Paraffin embedded Human Adrenal Gland. Recommended concentration: 3.75µg/ml.
Reference	Reference(s): Lee CW, Lin CC, Luo SF, Lee HC, Lee IT, Aird WC, Hwang TL, Yang CM. Tumor necrosis factor-alpha enhances neutrophil adhesiveness: induction of vascular cell adhesion molecule-1 via activation of Akt and CaM kinase II and modifications of histone acetyltransferase and histone deacetylase 4 in

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**