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

EB11759 - Goat Anti-calbindin D28 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: CALB, CALB1, calbindin, calbindin 1, (28kD), calbindin 1, 28kDa, calbindin D28, D-28K, OTTHUMP00000166027, OTTHUMP00000225441, RTVL-H protein, vitamin D-dependent calcium-binding protein, avian-type

Official Symbol: CALB1

Accession Number(s): NP_004920.1

Human GeneID(s): [793](#)

Non-Human GeneID(s): 83839 (rat)

Important Comments: Immunizing peptide overlaps EF hand 2, but not any calcium binding site.

Immunogen

Peptide with sequence C-KTFVDQYGQRDDGK, from the internal region of the protein sequence according to NP_004920.1.

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 26kDa band observed in Human Brain (Cerebellum) lysates and in Mouse and Rat total Brain lysates (calculated MW of 30.0kDa according to NP_004920.1). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Parmentier et al, Eur J Biochem. 1987 Dec30;170(1-2):207-15. PMID: 3691519..Recommended concentration: 0.03-0.1µg/ml.

IHC: Frozen sections of Human Hypothalamus shows staining of Calbinding D2 neurons. Recommended concentration, 0.1-0.3µg/ml.

Species Reactivity

Tested: Human, Mouse, Rat

Expected from sequence similarity: Human, Rat, Dog, Pig, Cow

EB11759 (0.1µg/ml) staining of PFA-perfused cryosection of Human Hypothalamus. Antigen retrieval with citrate buffer pH 6 at 80C for 30min, HRP-staining with Ni-DAB after Biotin-SP-antigoat amplification. Data obtained by Prof. Erik Hrabovszky, Inst, Exp, Med., Budapest, Hungary.

EB11759 (0.03µg/ml) staining of Human Cerebellum lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

EB11759 (0.1µg/ml) staining of Mouse (A) and Rat (B) Brain lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.