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EB10693 - Goat Anti-Calcipressin-1 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: RCAN1, regulator of calcineurin 1, ADAPT78, CSP1, DSC1, DSCR1, MCIP1, RCN1, Down syndrome candidate region 1, OTTHUMP00000108621, OTTHUMP00000108622, OTTHUMP00000214669, OTTHUMP00000214670, calcipressin-1, calcium and
Official Symbol: RCAN1
Accession Number(s): NP_004405.3; NP_981962.1; NP_981963.1; NP_001272320.2; NP_001272318.1; NP_001317945.1
Human GeneID(s): 1827
Non-Human GeneID(s): 54720 (mouse), 266766 (rat)
Important Comments: This antibody is expected to recognize all reported isoforms a to f.

Immunogen

Peptide with sequence C-HIGSSHLAPPNPD, from the internal region of the protein sequence according to NP_004405.3; NP_981962.1; NP_981963.1; NP_001272320.2; NP_001272318.1; NP_001317945.1.

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

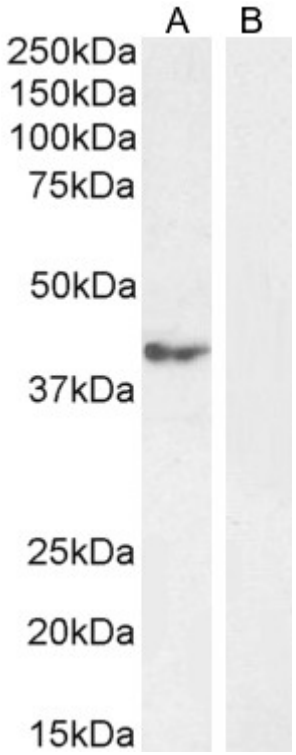
Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Approx. 40kDa band was observed in Human Cerebellum lysates (calculated MW of 31.9kDa according to NP_001272320.2). This molecular weight is observed by other commercial sources, and was blocked by incubation with the immunizing peptide. Recommended concentration: 1-1.5ug/ml. Primary incubation 1 hour at room temperature. Approx. 40kDa band corresponding to isoform 1L, was observed in Wild-type Mouse Brain lysates, which is not present in the KO mouse. Additional 55kDa bands were consistently observed in both the WT and KO Mouse, and are therefore a non-specific signal. Recommended concentration: 1-3µg/ml. Primary incubation 1 hour at room temperature. Data kindly provided by Dana Crawford, PhD, Albany Medical College, NY, USA.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm of A431 and U2OS cells. Recommended concentration: 10µg/ml.

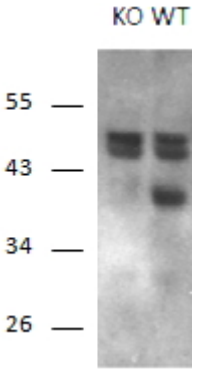
Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

Species Reactivity

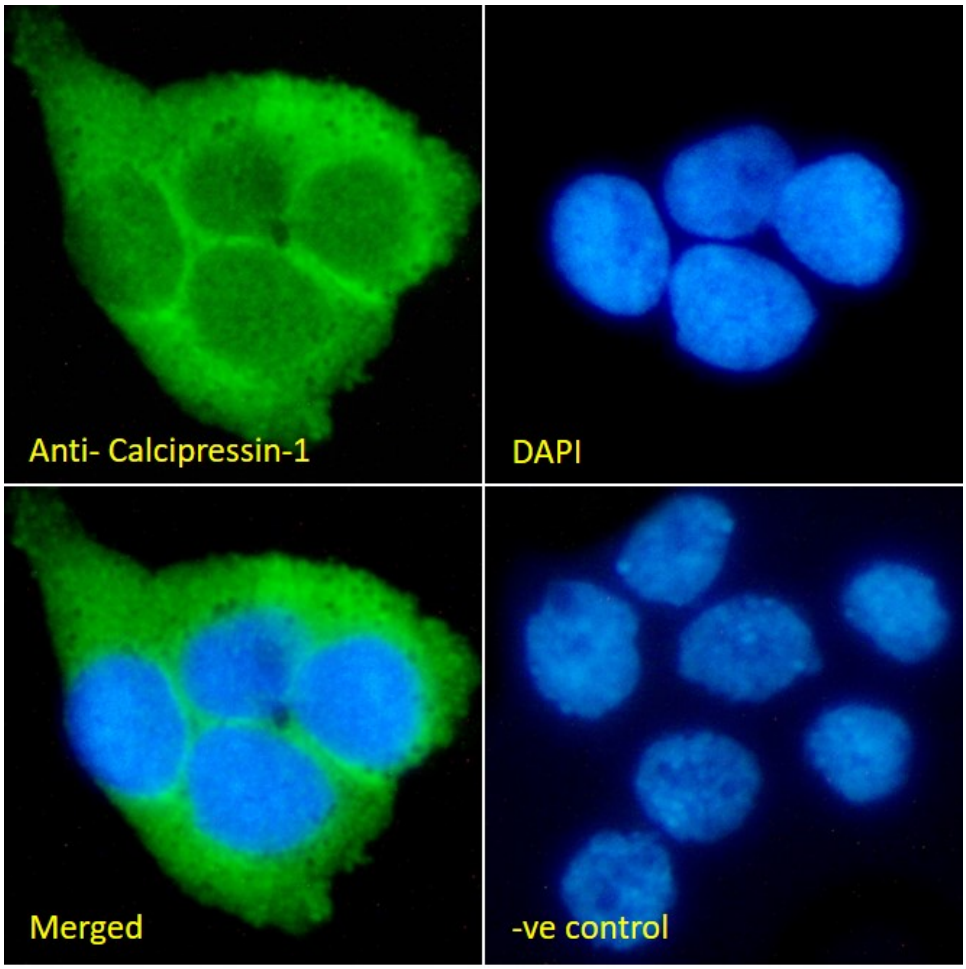
Tested: Human, Mouse
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow



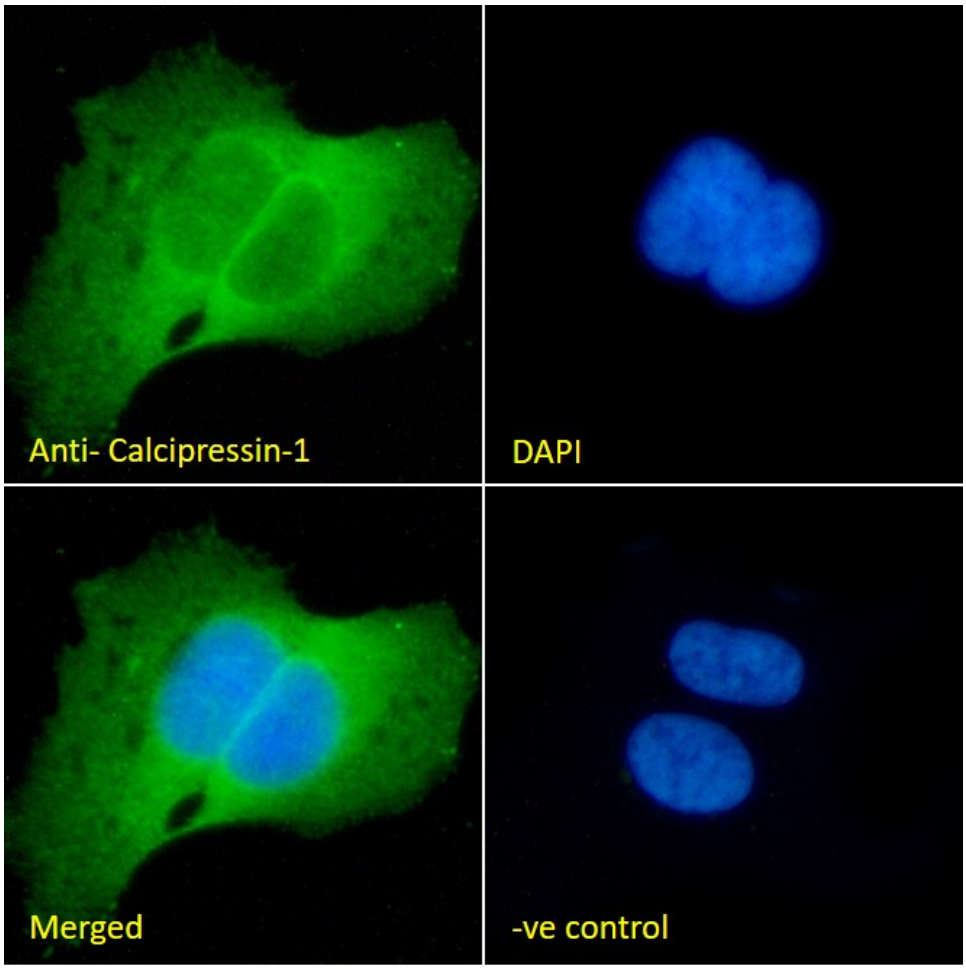
EB10693 (1ug/ml) staining of Human Cerebellum lysate (A) + peptide (B). (35µg protein in RIPA buffer). Detected by chemiluminescence.



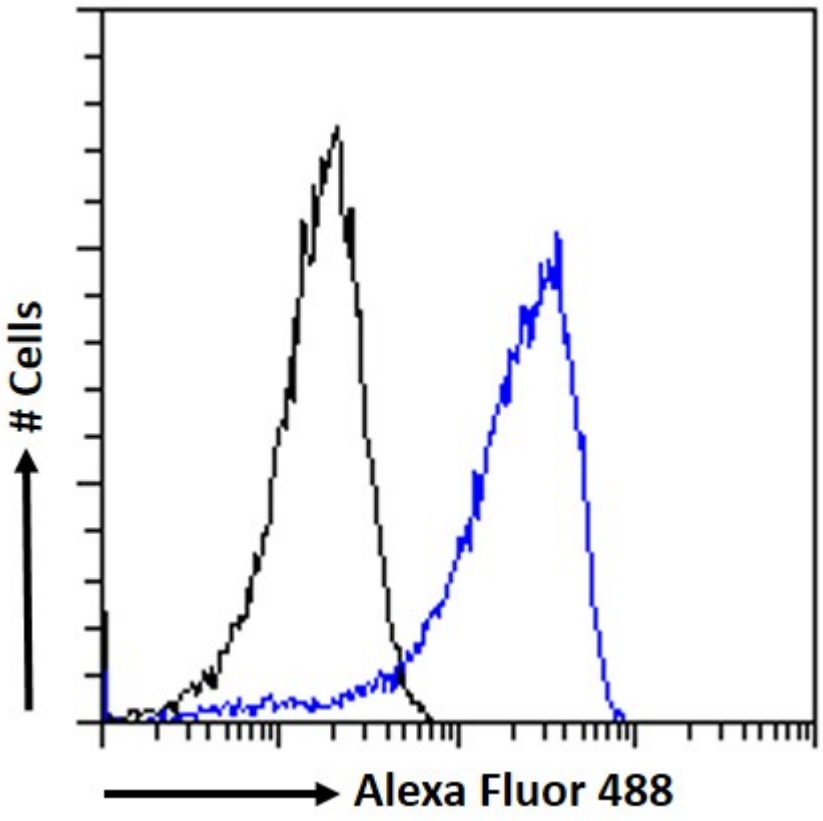
EB10693 (1µg/ml) staining of Mouse Brain and KO Mouse Brain lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB10693 Immunofluorescence analysis of paraformaldehyde fixed A431 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).



EB10693 Immunofluorescence analysis of paraformaldehyde fixed U2OS 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).



EB10693 Flow cytometric analysis of paraformaldehyde fixed A431 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.