



## UK Office

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

## EB10693 - Goat Anti-Calciopressin-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, calciopressin-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: 1-1.5µg/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.

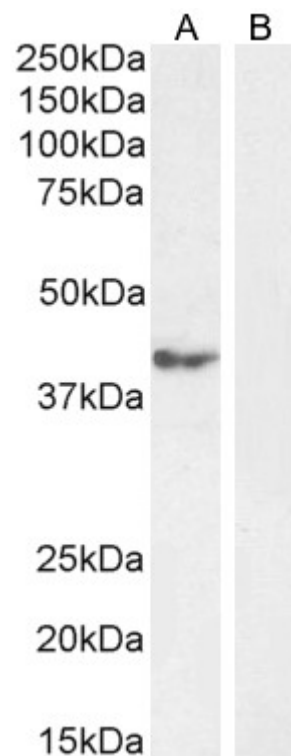
**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of A431 and U2OS cells. Recommended concentration: 10µg/ml.

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

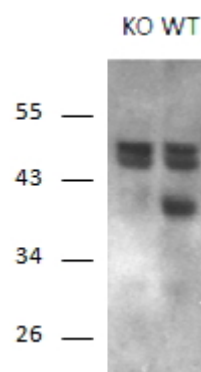
### Species Reactivity

**Tested:** Human, Mouse

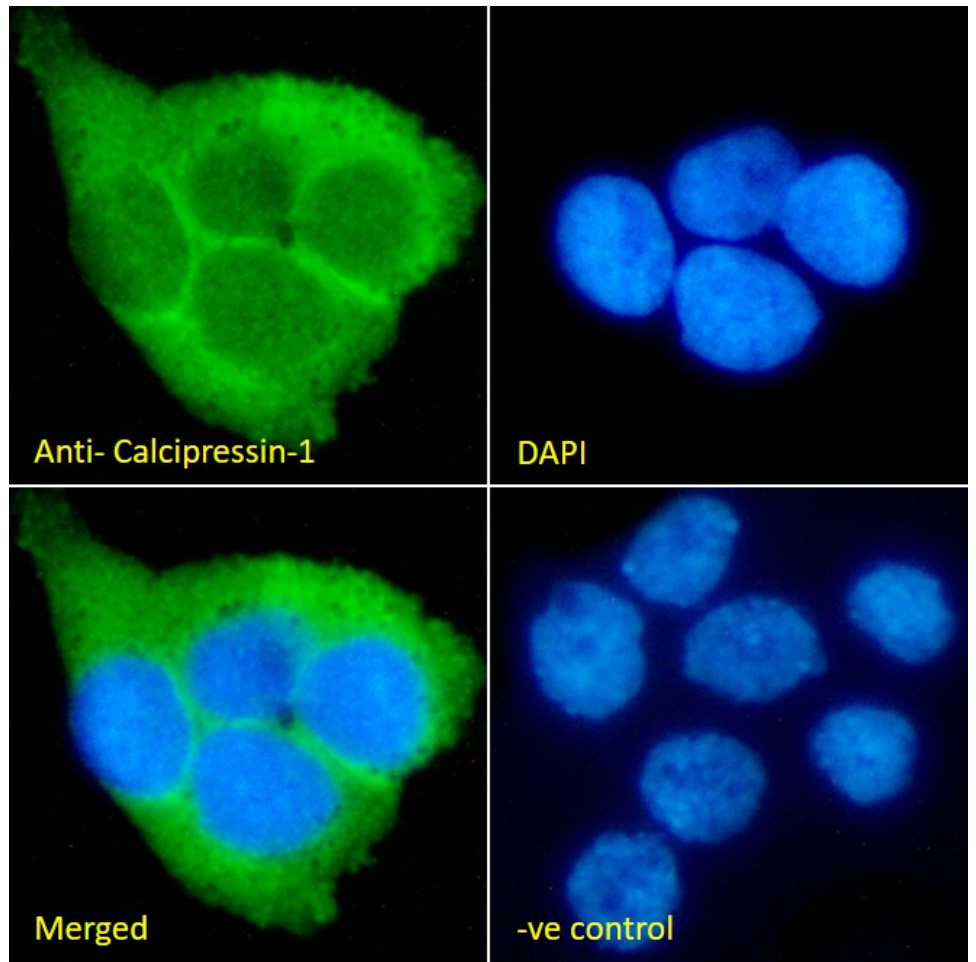
**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow



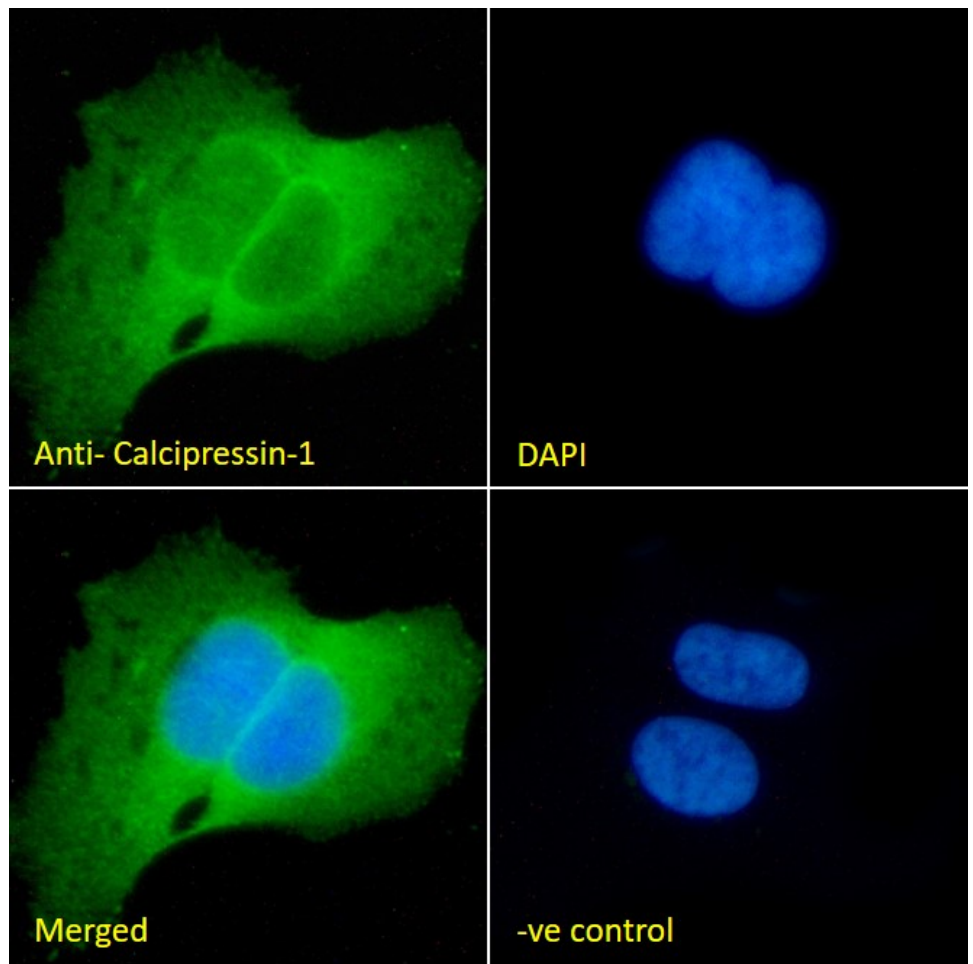
EB10693 (1ug/ml) staining of Human Cerebellum lysate (A) + peptide (B). (35µg protein in RIPA buffer). Detected by chemiluminescence.



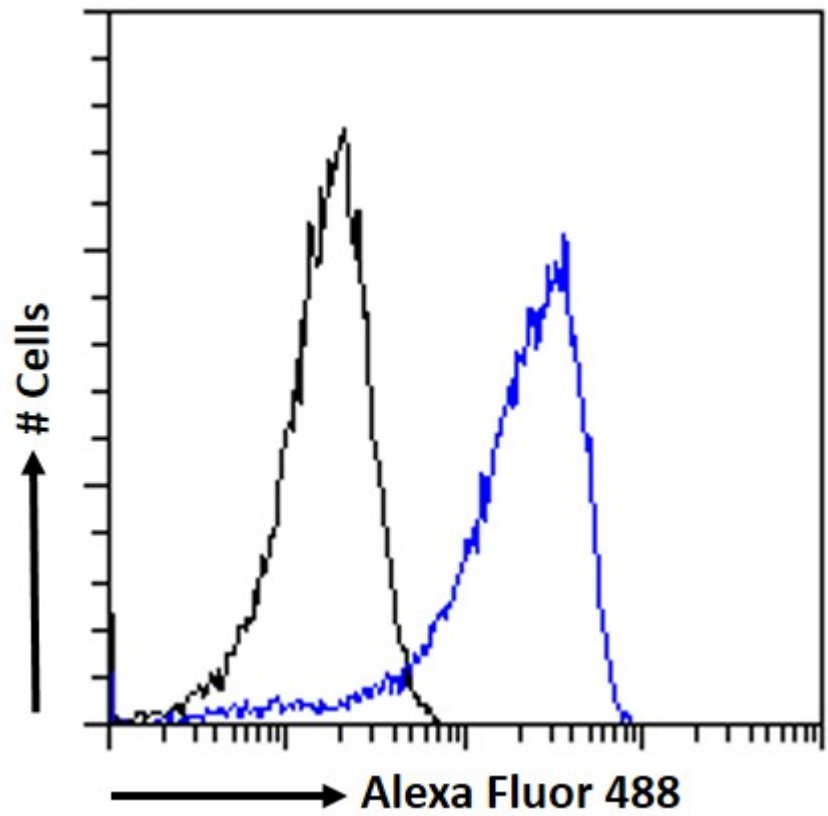
EB10693 (1µg/ml) staining of Mouse Brain and KO Mouse Brain lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



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.