

## International Office

### Everest Biotech Ltd

Vector Laboratories, Inc.  
6737 Mowry Ave  
Newark, CA 94560  
United States

Customer Service:

[customerservice@vectorlabs.com](mailto:customerservice@vectorlabs.com)

Technical Service:

[technical@vectorlabs.com](mailto:technical@vectorlabs.com)

Tel: +1 (800) 227-6666

[www.everestbiotech.com](http://www.everestbiotech.com)

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

## EB06349 - Goat Anti-ARP1 homolog A Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** ACTR1A, ARP1, ARP1 actin-related protein 1 homolog A, centractin alpha (yeast), actin-RPV, centractin alpha, ARP1, yeast homolog A, centrosome-associated actin homolog, ARP1 (actin-related protein 1, yeast) homolog A (centractin alpha), CTRN1, FLJ52695, FLJ52800, FLJ55002, ARP1 actin-related protein 1 homolog A, centractin alpha

**Official Symbol:** ACTR1A

**Accession Number(s):** NP\_005727.1

**Human GeneID(s):** [10121](#)

**Non-Human GeneID(s):** 54130 (mouse)

**Important Comments:** This epitope was selected to minimise the chance of cross-reactivity with ACTR1B (YEEDGSRAIHRKT).

### Immunogen

Peptide with sequence C-YEEDGARSIRHRT, from the C Terminus of the protein sequence according to NP\_005727.1.

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 1:64000.

**Western blot:** Approx. 42-45kDa band observed in lysates of cell lines A431 HEK293, HeLa, MCF7, NIH3T3, KNRK and MDCK, and in preliminary testing of Human and Mouse Adrenal gland and Mouse Stomach lysate (calculated MW of 42.6kDa according to Human NP\_005727.1, Mouse : NP\_058556.1, Rat NP\_001099834.1 and Dog NP\_001003164.1). Recommended concentration: 0.1-2µg/ml. Primary incubation 1 hour at room temperature.

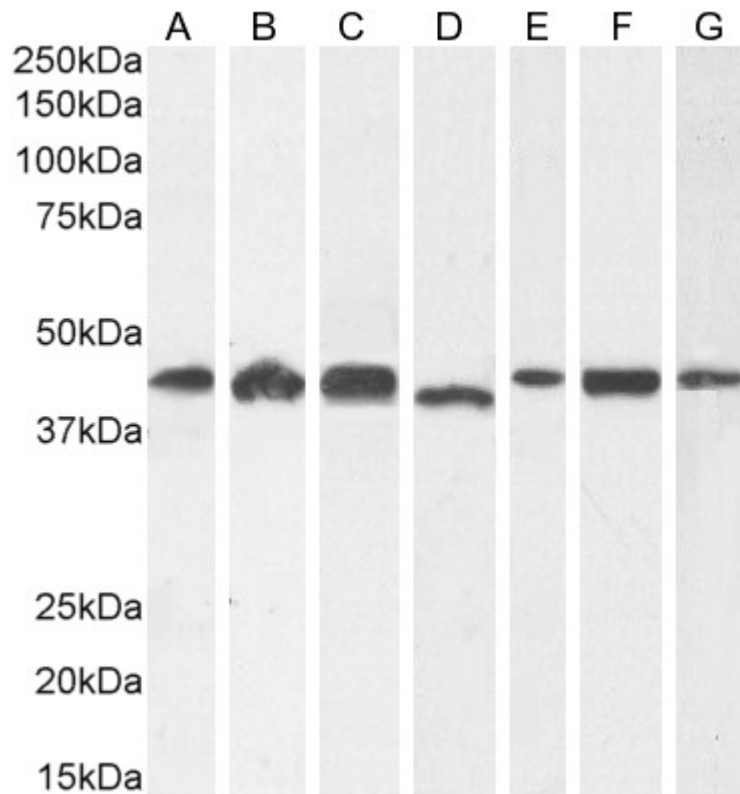
**Immunofluorescence:** A customer reported cytoplasmic staining on A431 cells at a primary ab concentration of 10ug/ml.

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

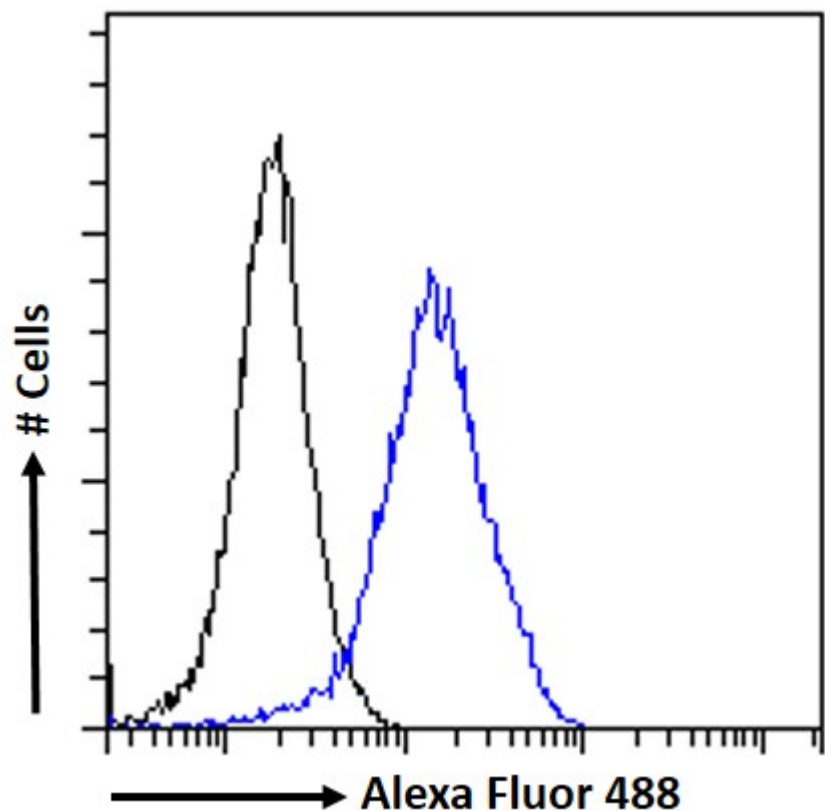
### Species Reactivity

**Tested:** Human, Mouse, Rat, Dog

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



EB06349 (1ug/ml) staining of A431 (A) and HeLa (B), (2ug/ml) HEK293 (C) and (0.1ug/ml) MCF7 (D), NIH3T3 (E), KNRK (F) and MDCK (G) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB06349 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.