

## 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.**

## EB12421 - Goat Anti-CAPG Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** CAPG, capping protein (actin filament), gelsolin-like, AFCP, MCP, actin regulatory protein CAP-G, actin-regulatory protein CAP-G, gelsolin-like capping protein, macrophage capping protein, macrophage-capping protein

**Official Symbol:** CAPG

**Accession Number(s):** NP\_001738.2; NP\_001243069.1; NP\_001307663.1

**Human GeneID(s):** [822](#)

**Important Comments:** This antibody is expected to recognize all reported isoform (NP\_001738.2; NP\_001243069.1, NP\_001307663.1. Reported variants represent identical protein: NP\_001243068.1, NP\_001738.2.

### Immunogen

Peptide with sequence C-NIRATERALNWDS, from the internal region of the protein sequence according to NP\_001738.2; NP\_001243069.1; NP\_001307663.1.

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. 38kDa band observed in lysates of cell lines THP-1, U937 and A431, and in Human Spleen lysates and approx. 37kDa in Human Tonsil lysates (calculated MW of 38.5kDa according to NP\_001738.2 and 36.9kDa according to NP\_001243069.1). Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature.

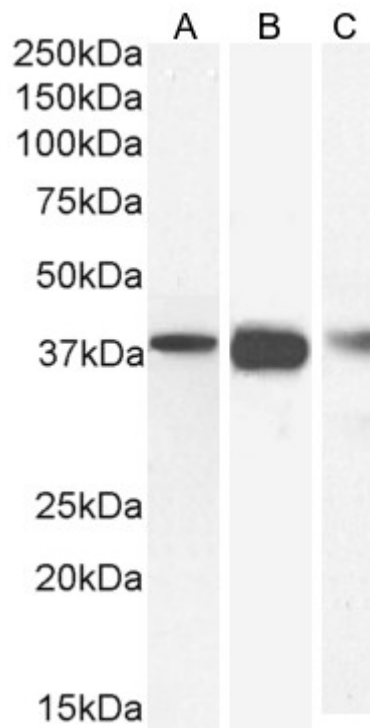
**Positive Control:** A batch specific positive control lysate is available for this product. Please contact [Sales@everestbiotech.com](mailto:Sales@everestbiotech.com) for availability.

**Flow Cytometry:** Flow cytometric analysis of THP-1 cells. Recommended concentration: 10ug/ml.

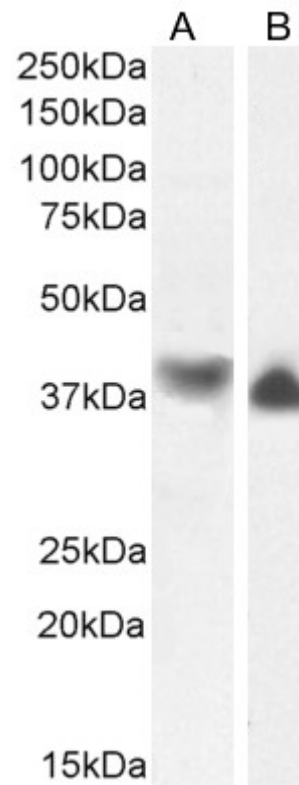
### Species Reactivity

**Tested:** Human

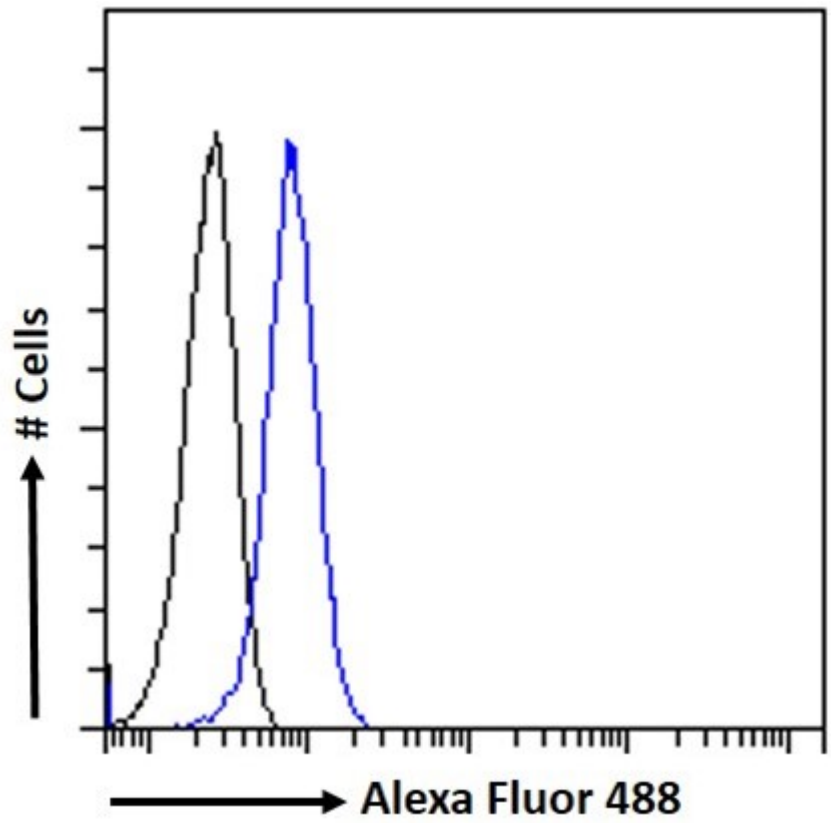
**Expected from sequence similarity:** Human, Dog



EB12421 (0.03 $\mu$ g/ml) staining of THP-1 (A) and (0.3 $\mu$ g/ml) U937 (B) and A431 (C) cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB12421 (0.1 $\mu$ g/ml) staining of Human Spleen (A) and Tonsil (B) lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB12421 Flow cytometric analysis of paraformaldehyde fixed THP-1 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.