



## International Office

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

## EB12420 - Goat Anti-ACTN1 (aa596-609) Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** ACTN1, actinin, alpha 1, F-actin cross-linking protein, actinin 1 smooth muscle, alpha-actinin cytoskeletal isoform, alpha-actinin-1, non-muscle alpha-actinin-1

**Official Symbol:** ACTN1

**Accession Number(s):** NP\_001123476.1; NP\_001093.1; NP\_001123477.1

**Human GeneID(s):** [87](#)

**Non-Human GeneID(s):** 109711 (mouse), 81634 (rat)

**Important Comments:** This antibody is expected to recognize all reported isoforms (NP\_001123476.1; NP\_001093.1; NP\_001123477.1).

### Immunogen

Peptide with sequence C-TPQEINGKWDHVRQ, from the internal region of the protein sequence according to NP\_001123476.1; NP\_001093.1; NP\_001123477.1.

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

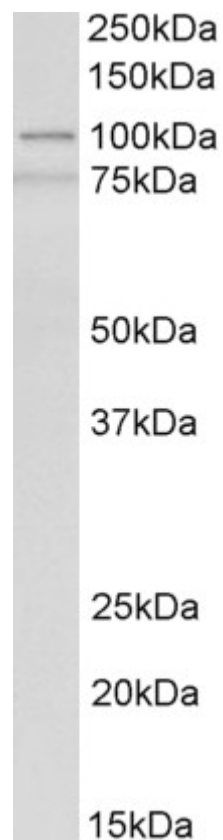
**Peptide ELISA:** antibody detection limit dilution 1:128000.

**Western blot:** Approx 100kDa band observed in Human, Mouse and Rat Spleen lysates (calculated MW of 103kDa according to NP\_001093.1). Recommended concentration: 0.3-1µg/ml. An additional band of unknown identity was also consistently observed at 75kDa. This band was successfully blocked by incubation with the immunizing peptide. We would appreciate any feedback from people in the field - have any such results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

### Species Reactivity

**Tested:** Human, Mouse, Rat

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



EB12420 (0.3 $\mu$ g/ml) staining of Human Spleen lysate (35 $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB12420 (0.3µg/ml) staining of Mouse (A) and Rat (B) Spleen lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.