



## UK Office

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

## EB07691 - Goat Anti-AKT1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** AKT1, v-akt murine thymoma viral oncogene homolog 1, AKT, MGC99656, PKB, PRKBA, RAC, RAC-ALPHA, RAC-alpha serine/threonine-protein kinase, murine thymoma viral (v-akt) oncogene homolog-1, protein kinase B, rac protein kinase alpha

**Official Symbol:** AKT1

**Accession Number(s):** NP\_005154.2; NP\_001014431.1; NP\_001014432.1

**Human GeneID(s):** [207](#)

**Important Comments:** All variants represent identical protein (NP\_005154.2, NP\_001014431.1, NP\_001014432.1). This antibody is NOT expected to cross-react with AKT2. It may recognize AKT1 in Rat and Dog.

### Immunogen

Peptide with sequence C-QDVDQREAPLN, from the internal region of the protein sequence according to NP\_005154.2; NP\_001014431.1; NP\_001014432.1.

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 60kDa band observed in MCF7 cell lysates and approx. 55kDa in preliminary testing of K562 and NIH3T3 cell lysate (calculated MW of 55.7kDa according to NP\_005154.2). These molecular weights are observed by other commercial sources. Recommended concentration: 0.1-0.3ug/ml. Primary incubation 1 hour at room temperature.

**Immunofluorescence:** Strong expression of the protein seen in the microtubules/cytoplasm of HeLa cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of MCF7 cells. Recommended concentration: 10ug/ml.

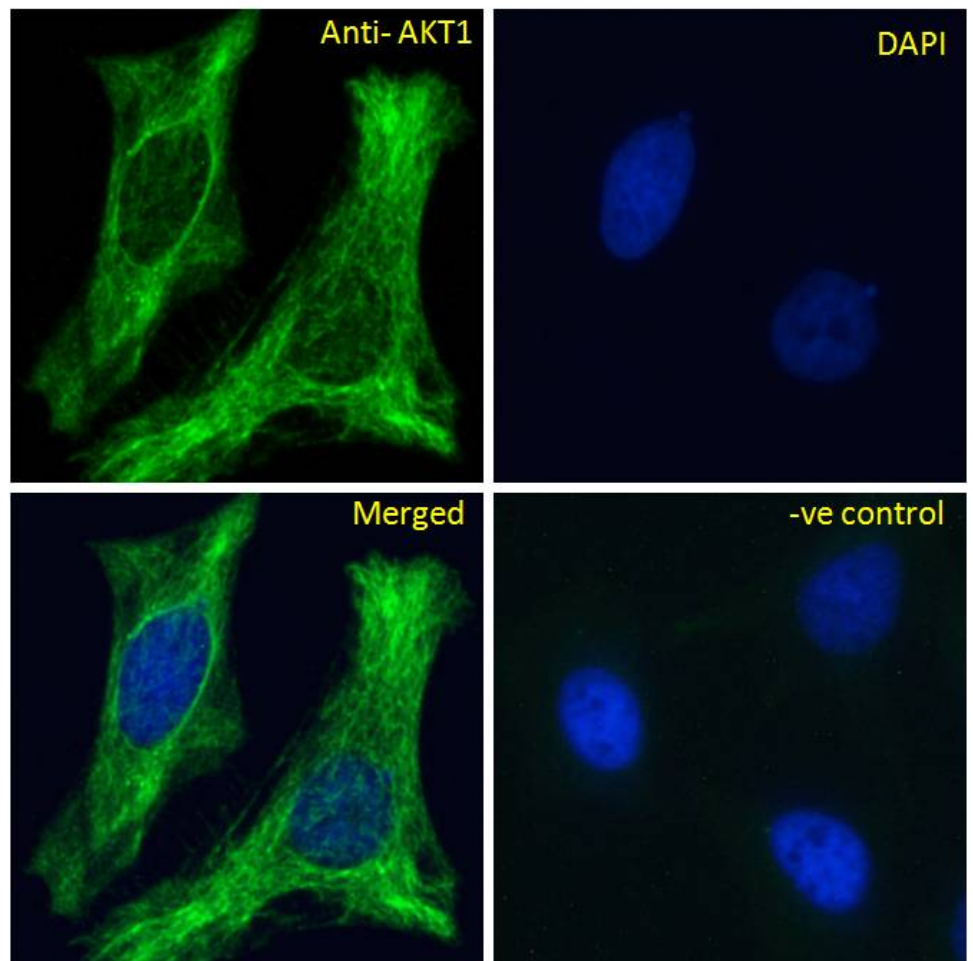
### Species Reactivity

**Tested:** Human

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

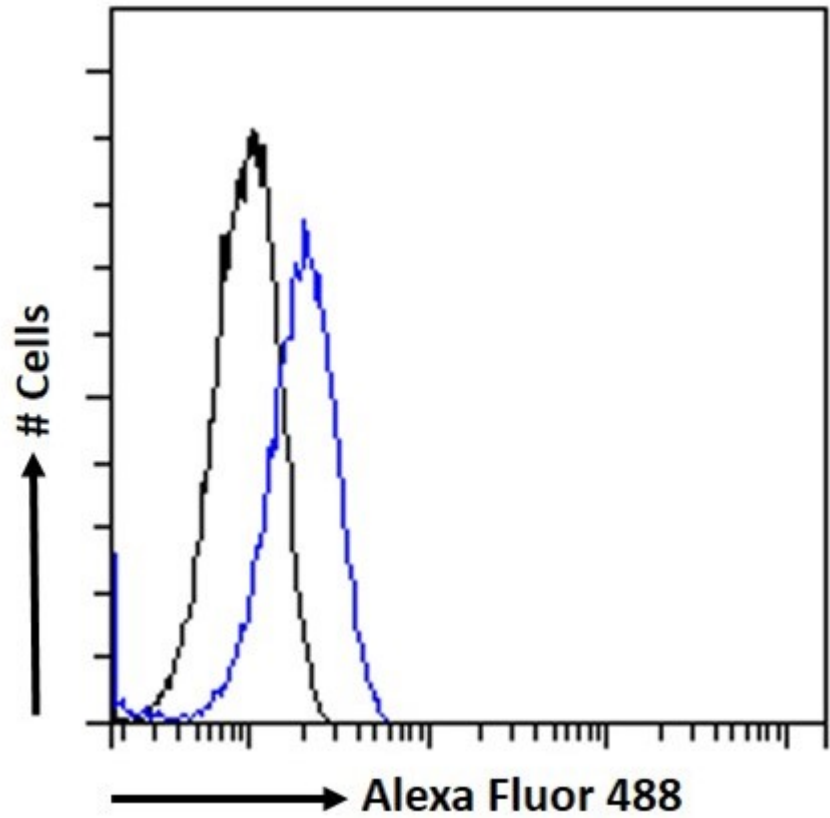


EB07691 (0.3 $\mu$ g/ml) staining of MCF7 cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB07691 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (2 $\mu$ g/ml), showing Microtubule/cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG

(10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07691 Flow cytometric analysis of paraformaldehyde fixed MCF7 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.