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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.

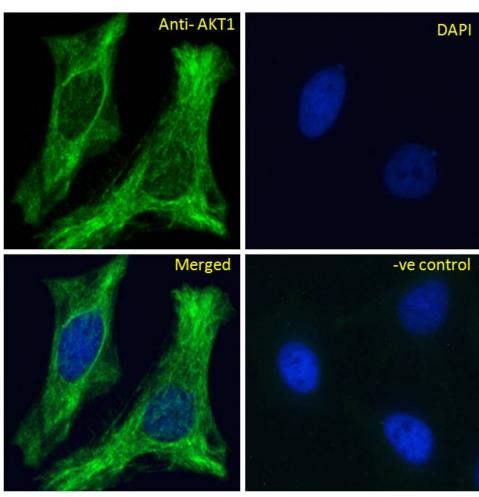
Species Reactivity

Tested: Human

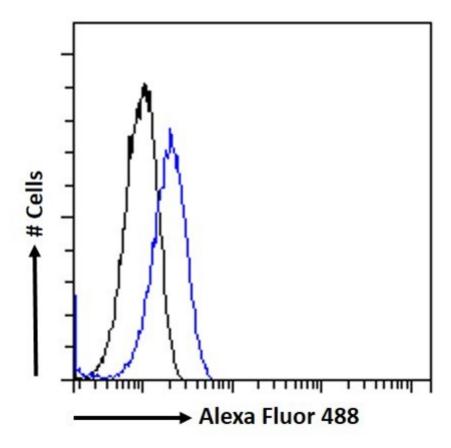
Expected from sequence similarity: Human, Mouse



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 (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing Microtubule/cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG



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.