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EB06562 - Goat Anti-AKT3 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: AKT3, PKBG, PRKBG, STK-2, RAC-gamma, RAC-PK-gamma, DKFZP434N0250, v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma), protein kinase B gamma, serine threonine protein kinase, Akt-3, RAC-gamma serine/threonine protein kinase
Official Symbol: AKT3
Accession Number(s): NP_005456.1; NP_859029.1
Human GeneID(s): 10000
Important Comments: This antibody is expected to recognise an epitope corresponding to aa 119-133 of both isoforms of human AKT3 protein. This antibody does not cross-react with human AKT1/2. Reported variants represent identical protein (NP_859029.1; NP_001193658.1).

Immunogen

Peptide with sequence CSPTSQIDNIGEEEM, from the internal region of the protein sequence according to NP_005456.1; NP_859029.1.

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 1:16000.
Western blot: Approx. 50-55kDa band observed in lysates of cell lines HepG2, and HeLa , approx. 55kDa in Human Thyroid lysates, and approx. 50kDa in Mouse and Rat Brain lysates (calculated MW of 54.0kDa according to Human NP_859029.1 and 55.7kDa according to Mouse NP_035915.3 and Rat NP_113763.2). Recommended concentration: 1-3µg/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 for availability.

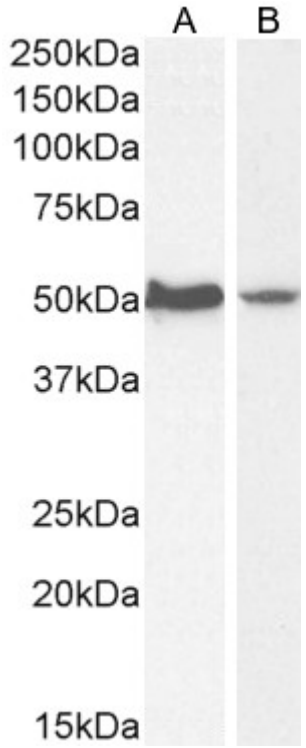
IHC: Paraffin embedded Human Prostate and Heart. Recommended concentration: 5µg/ml.

Immunofluorescence: Strong expression of the protein seen in THP-1 and A431 cells. Recommended concentration: 10µg/ml.

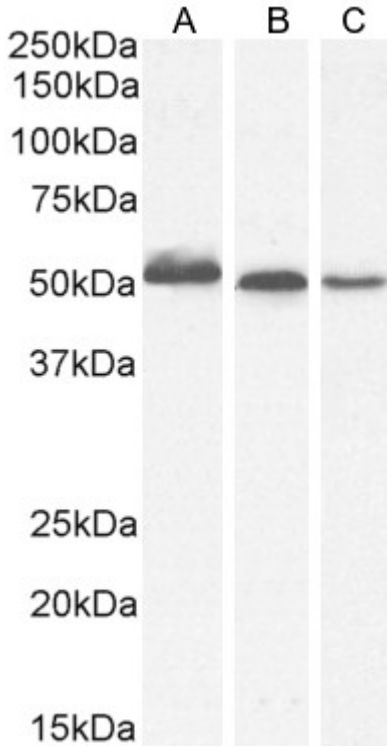
Flow Cytometry: Flow cytometric analysis of HepG2 cells. Recommended concentration: 10ug/ml.

Species Reactivity

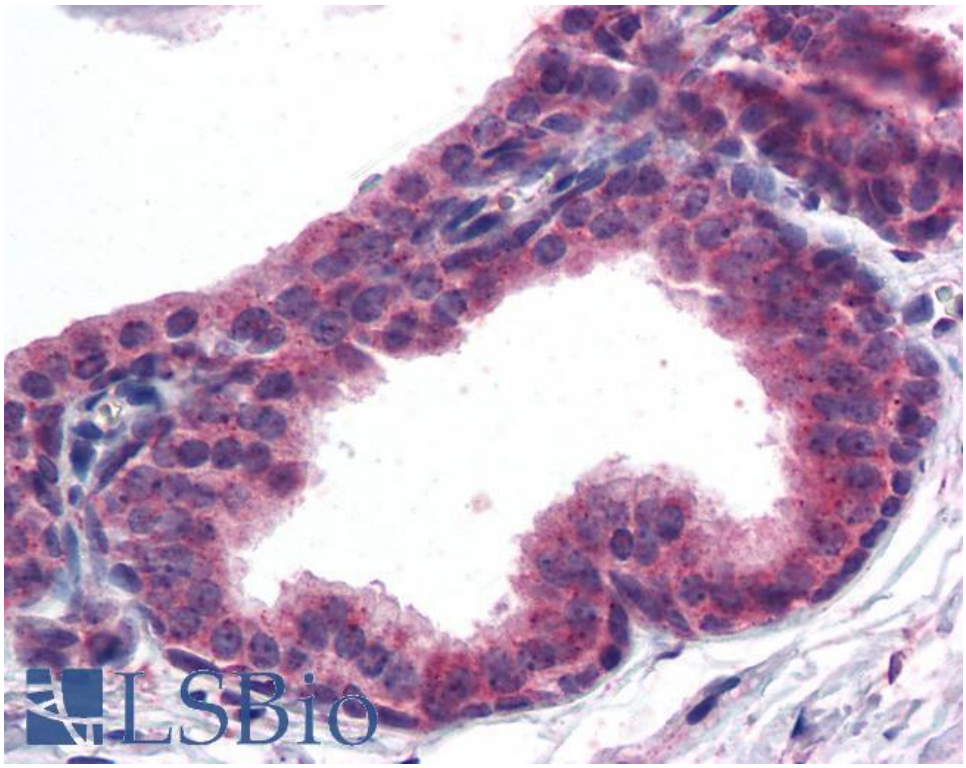
Tested: Human, Mouse, Rat
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow



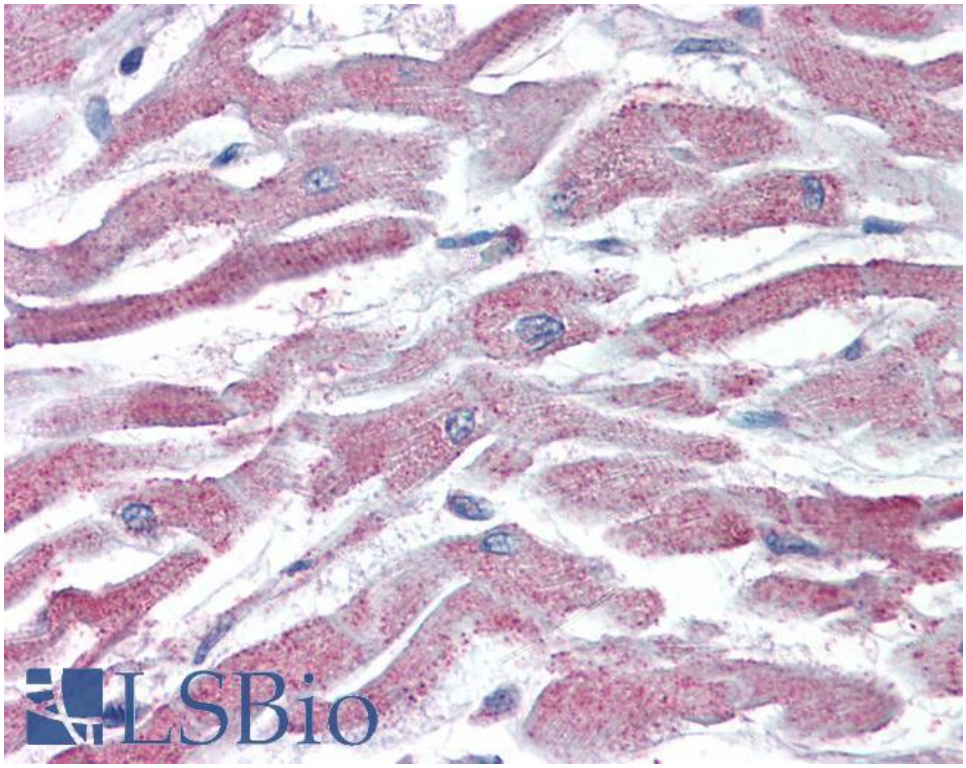
EB06562 (1µg/ml) staining of HepG2 (A) and HeLa (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



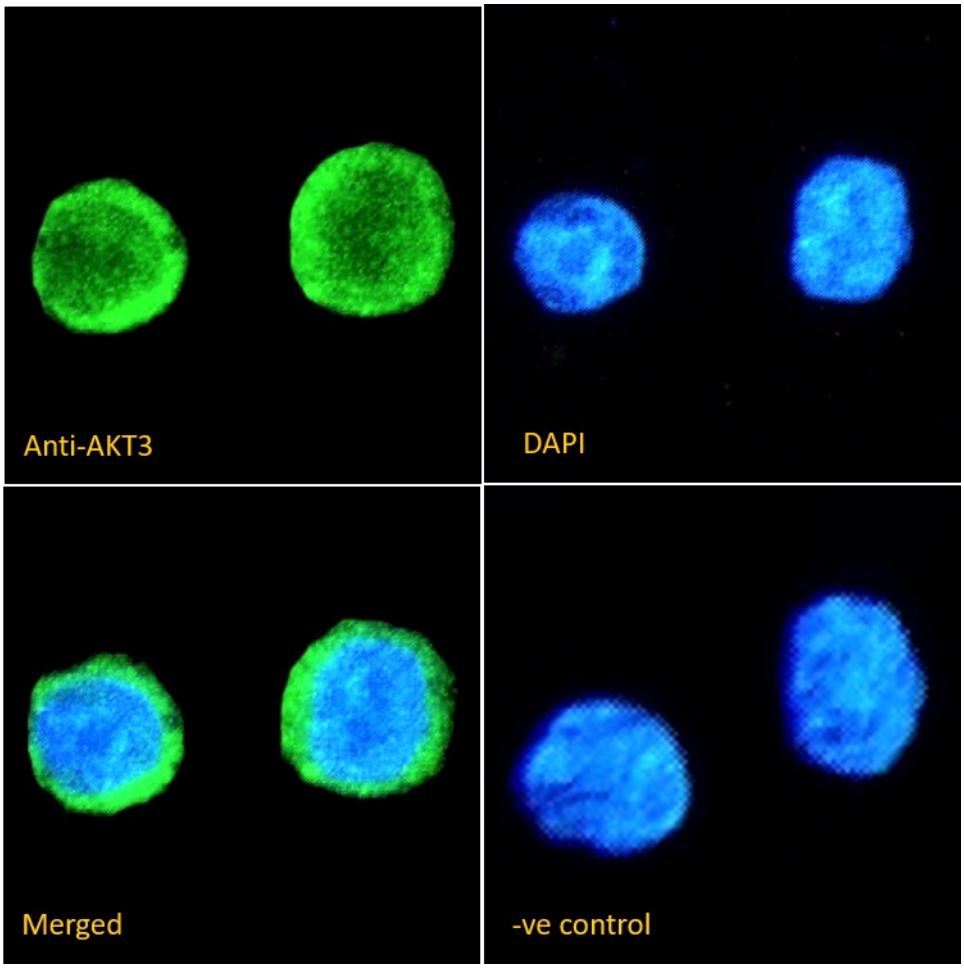
EB06562 (1µg/ml) staining of Human Thyroid (A), (0.5ug/ml) Mouse Brain (B) and (1µg/ml) Rat Brain (C) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



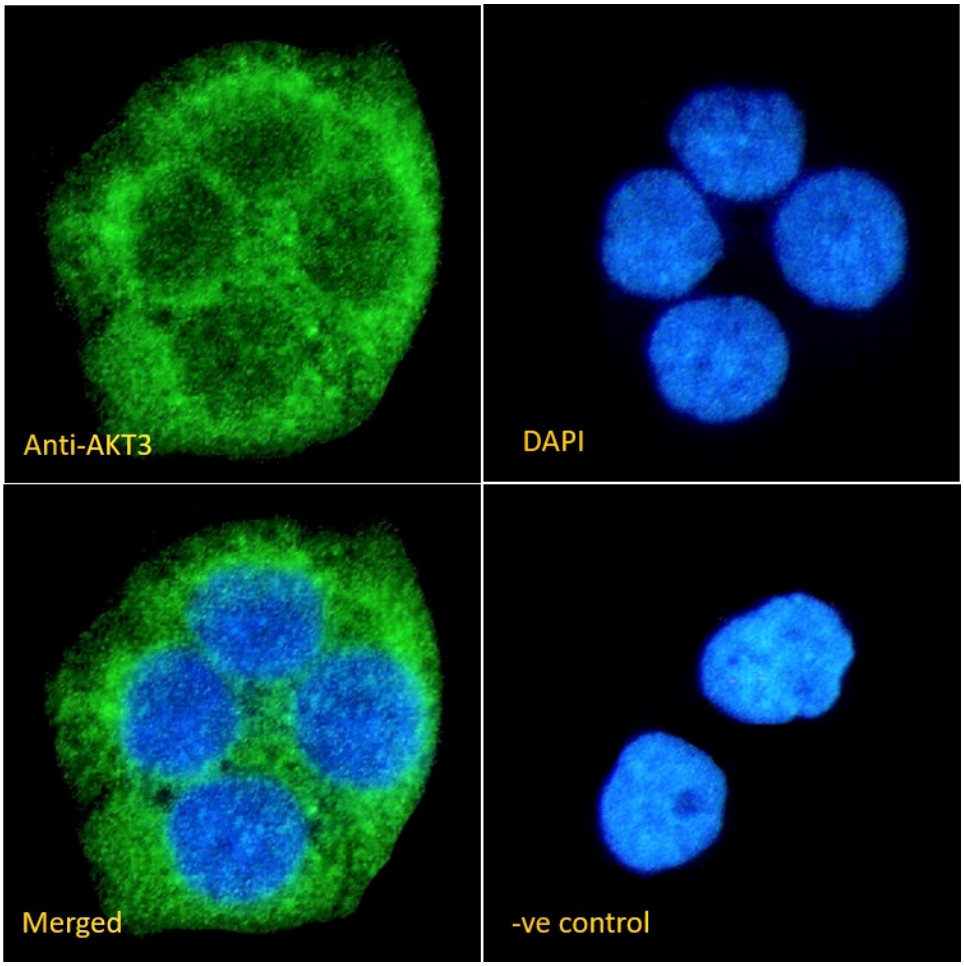
EB06562 (5µg/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



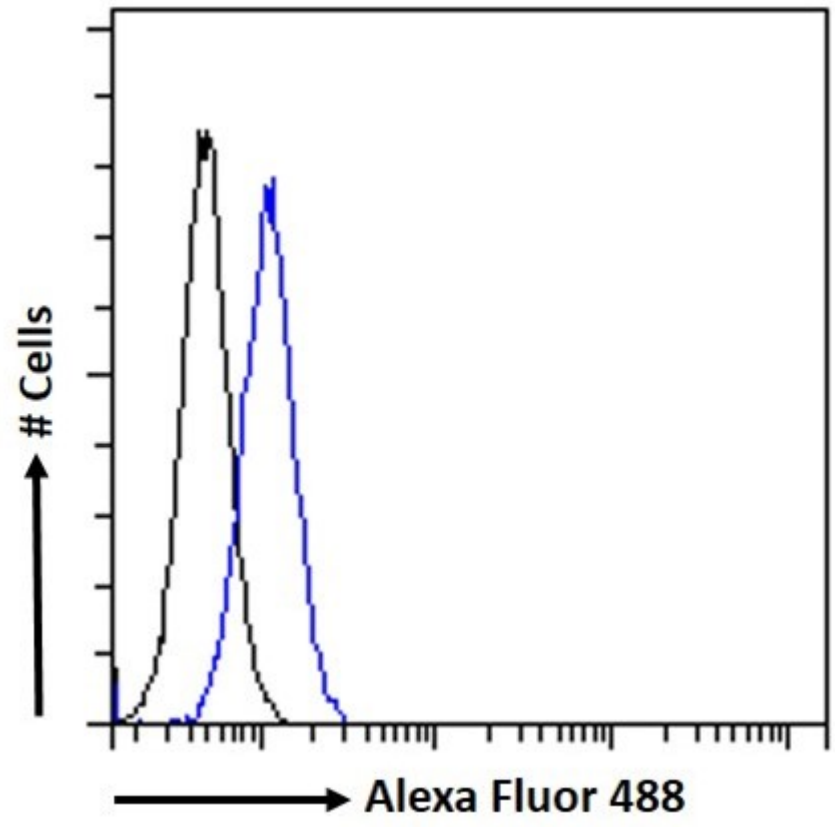
EB06562 (5µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06562 Immunofluorescence analysis of paraformaldehyde fixed THP-1 immobilized on Shi-fix™ plus cover-slips. Primary incubation 1hr (1:50 dilution) followed by Alexa Fluor® 488 secondary antibody (1:2000 dilution), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Anti-Goat IgG followed by Alexa Fluor® 488 secondary antibody.



EB06562 Immunofluorescence analysis of paraformaldehyde fixed A431. Primary incubation 1hr (1:50 dilution) followed by Alexa Fluor® 488 secondary antibody (1:2000 dilution), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Anti-Goat IgG followed by Alexa Fluor® 488 secondary antibody.



EB06562 Flow cytometric analysis of paraformaldehyde fixed HepG2 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.