

Product Datasheet

Anti-AKT1 Rabbit pAb



For Research Use Only. Not For Use In Diagnostic Procedures

Product Information

Product name Anti-AKT1 Rabbit pAb

Source Rabbit

Species reactivity Human, Mouse, Rat

Tested applications WB 1:500-1:1000

IHC 1:150-1:300

IF 1:150

Cellular localization Cytoplasm. Nucleus. Cell membrane

Pack size 50/100/200/500/1000µl

Storage Store at -20°C. **Avoid freeze/thaw cycles.**

Storage buffer Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml

BSA, 50% glycerol and less than 0.02% sodium azide

General Information

Background The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery.

Immunogen Polyclonal antibody is produced by immunizing animals with a synthetic peptide of AKT1.

Purification Polyclonal antibody was purified by immunogen affinity chromatography.

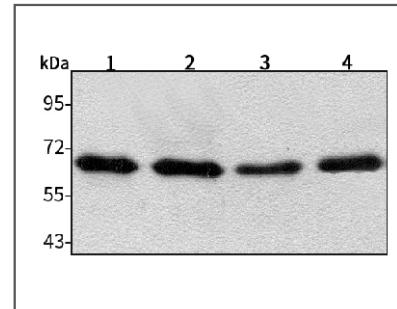
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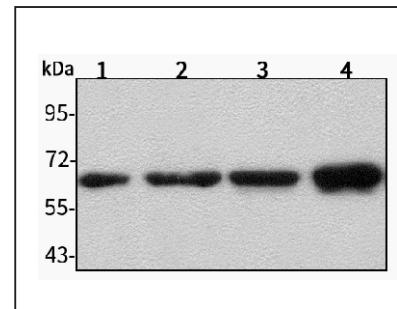
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Product Images



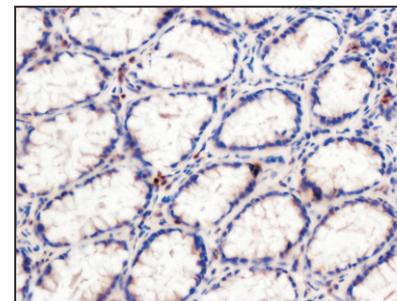
Western blot-Anti-AKT1 pAb

Lane 1: Human HepG2 cell lysate
Lane 2: Human Hela cell lysate
Lane 3: Human BGC-823 cell lysate
Lane 4: Human MGC-803 cell lysate
All lanes: Anti-AKT1 at 1:1000 dilution
Lysates/proteins at 20-50 µg per lane.
Predicted band size: 56 kDa
Observed band size: 56 kDa



Western blot-Anti-AKT1 pAb

Lane 1: Mouse lung tissue lysate
Lane 2: Mouse heart tissue lysate
Lane 3: Rat colon tissue lysate
Lane 4: Rat skin tissue lysate
All lanes: Anti-AKT1 at 1:1000 dilution
Lysates/proteins at 20-50 µg per lane.
Predicted band size: 56 kDa
Observed band size: 56 kDa



Immunohistochemistry-Anti-AKT1 pAb

Immunohistochemical analysis of paraffin-embedded human colon cancer using anti-AKT1 Rabbit Antibody at 1:150 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

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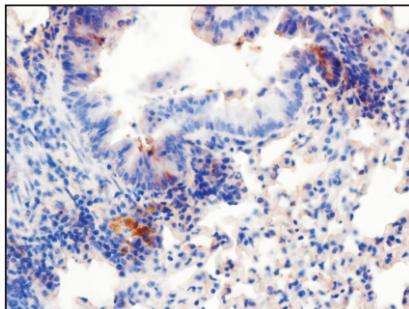
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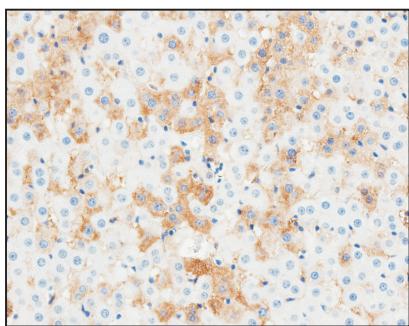
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Immunohistochemistry-Anti-AKT1 pAb

Immunohistochemical analysis of paraffin-embedded mouse lung using anti-AKT1 Rabbit Antibody at 1:150 dilution.

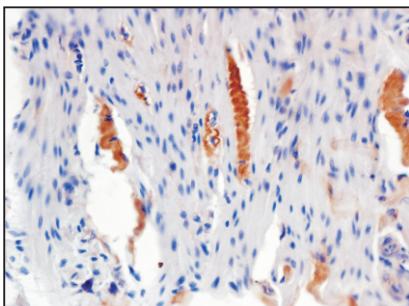
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.



Immunohistochemistry-Anti-AKT1 pAb

Immunohistochemical analysis of paraffin-embedded rat liver using anti-AKT1 Rabbit Antibody at 1:150 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.



Immunohistochemistry-Anti-AKT1 pAb

Immunohistochemical analysis of paraffin-embedded rat stomach using anti-AKT1 Rabbit Antibody at 1:150 dilution.

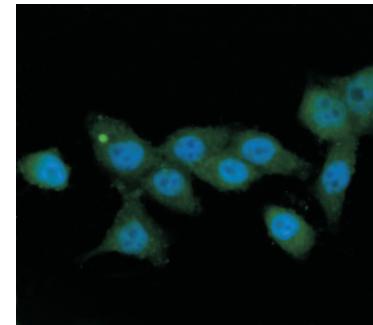
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Immunofluorescence-Anti-AKT1 pAb

Immunofluorescence analysis of paraffin-embedded human hela cell using anti-AKT1 Rabbit Antibody at 1:150 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.