

Anti-AKT Rabbit pAb



WL0003b

For Research Use Only. Not For Use In Diagnostic Procedures

Product Information

| | | | |
|-----------------------|--|--------------|--|
| Product name | Anti-AKT Rabbit pAb | | |
| Source | Rabbit | | |
| Species reactivity | Human, Mouse, Rat, Cow | | |
| Tested applications | WB | 1:500-1:1000 | |
| | IHC | 1:100-1:200 | |
| | IF | 1:200 | |
| Cellular localization | Cell membrane, Cytoplasm, Mitochondrion, Nucleus | | |
| 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

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|--------------|--|
| Background | AKT, also referred to as PKB or Rac, plays a critical role in controlling survival and apoptosis. AKT is activated by phospholipid binding and activation loop phosphorylation at Thr308 by PDK1 and by phosphorylation within the carboxy terminus at Ser473. AKT promotes cell survival by inhibiting apoptosis through phosphorylation and inactivation of several targets, including Bad, forkhead transcription factors, c-Raf, and caspase-9. Another essential AKT function is the regulation of glycogen synthesis through phosphorylation and inactivation of GSK-3α and β. In addition to its role in survival and glycogen synthesis, AKT is involved in cell cycle regulation by preventing GSK-3β-mediated phosphorylation and degradation of cyclin D1 and by negatively regulating the cyclin dependent kinase inhibitors p27 Kip1 and p21 Waf1/Cip1. |
| Immunogen | Polyclonal antibody is produced by immunizing animals with a synthetic peptide of AKT. |
| Purification | Polyclonal antibody was purified by immunogen affinity chromatography. |

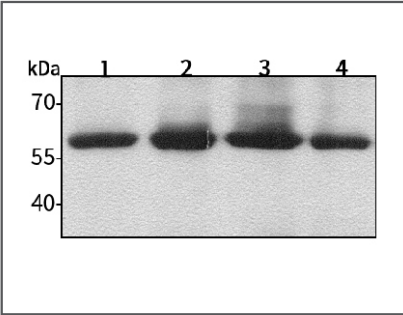
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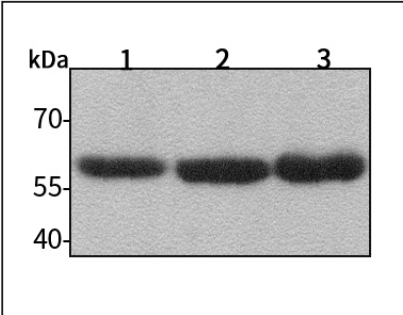
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Product Images



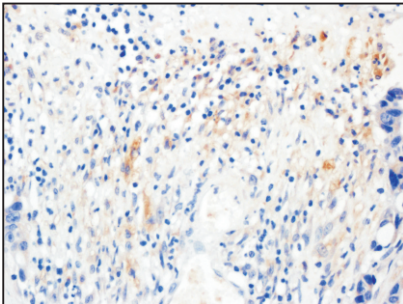
Western blot-Anti-AKT pAb

Lane 1: Human HepG2 cell lysate
Lane 2: Human Hela cell lysate
Lane 3: Human SW480 cell lysate
Lane 4: Human BGC-823 cell lysate
All lanes: Anti-AKT 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-AKT pAb

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



Immunohistochemistry-Anti-AKT pAb

Immunohistochemical analysis of paraffin-embedded human colon cancer using anti-AKT Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

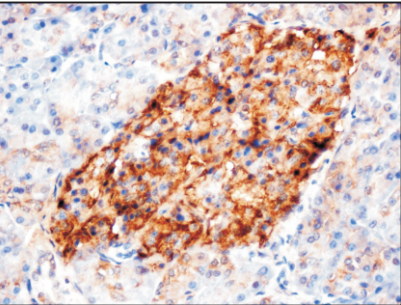
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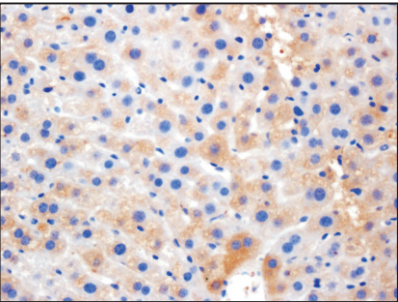
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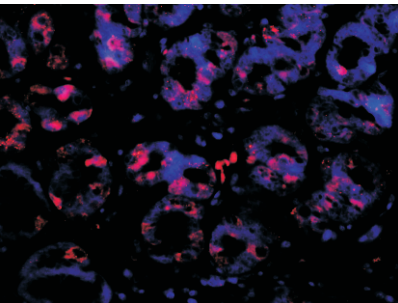
Immunohistochemistry-Anti-AKT pAb

Immunohistochemical analysis of paraffin-embedded human pancreatic cancer using anti-AKT Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunohistochemistry-Anti-AKT pAb

Immunohistochemical analysis of paraffin-embedded mouse liver using anti-AKT Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunofluorescence-Anti-AKT pAb

Immunofluorescence analysis of paraffin-embedded human stomach cancer using anti-ALDH1A1 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

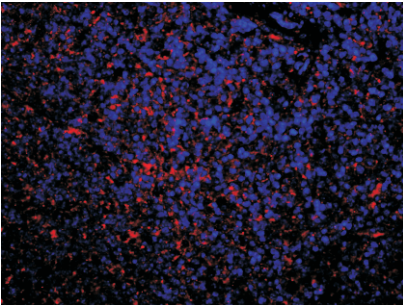
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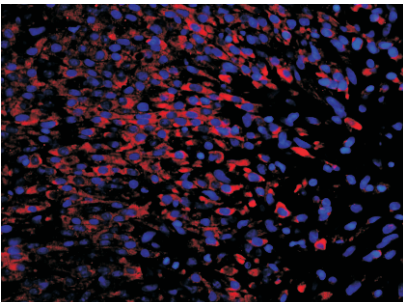
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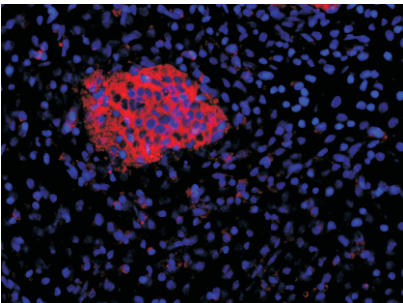
Immunofluorescence-Anti-AKT pAb

Immunofluorescence analysis of paraffin-embedded mouse spleen using anti-ALDH1A1 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunofluorescence-Anti-AKT pAb

Immunofluorescence analysis of paraffin-embedded rat ovary using anti-ALDH1A1 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunofluorescence-Anti-AKT pAb

Immunofluorescence analysis of paraffin-embedded rat uterus using anti-ALDH1A1 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0