

Product Datasheet

Anti-AKT Rabbit pAb

For Research Use Only. Not For Use In Diagnostic Procedures



WL0003b

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

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-3 α and β . In addition to its role in survival and glycogen synthesis, AKT is involved in cell cycle regulation by preventing GSK-3 β -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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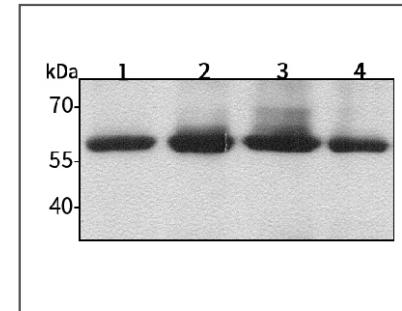
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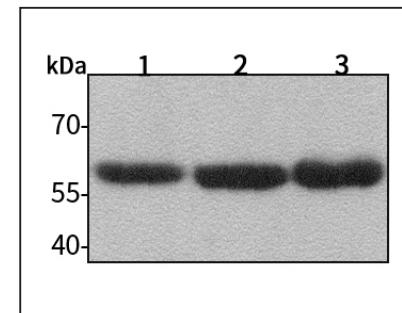
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Product Images



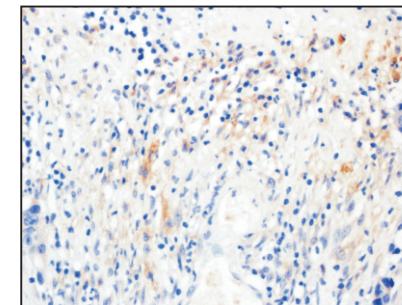
Western blot-Anti-AKT pAb

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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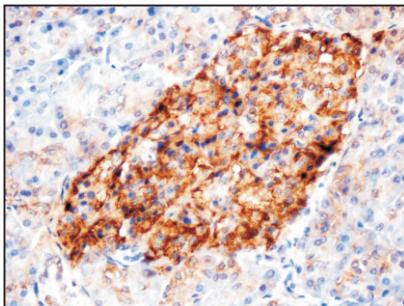
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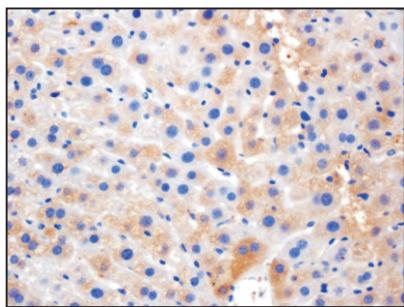
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Immunohistochemistry-Anti-AKT pAb

Immunohistochemical analysis of paraffin-embedded human pancreatic cancer using anti-AKT Rabbit Antibody at 1:200 dilution.

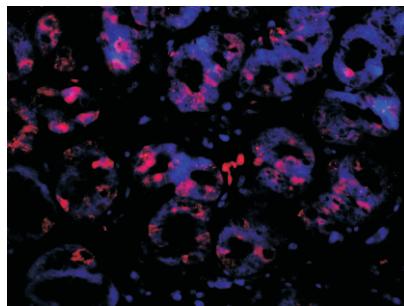
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.



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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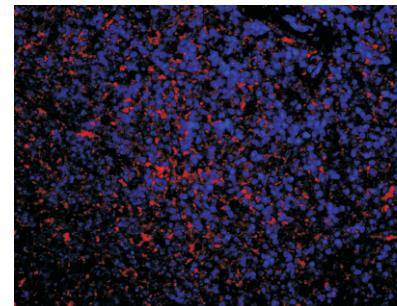
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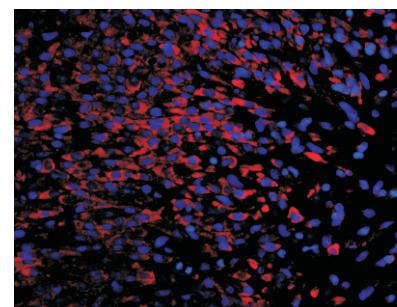
Product Images



Immunofluorescence-Anti-AKT pAb

Immunofluorescence analysis of paraffin-embedded mouse spleen using anti-ALDH1A1 Rabbit Antibody at 1:200 dilution.

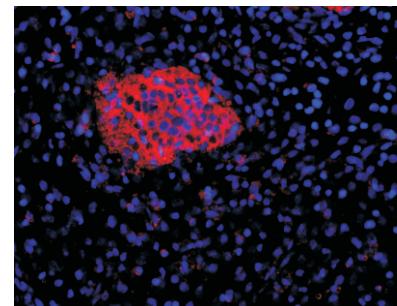
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.



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.