

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		
Tested applications	Western blot	1:500-1:1000	
	Immunohistochemistry	1:100-1:200	
	Immunofluorescence	1:200	

**Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.*

Molecular Wt.	62kDa
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-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.

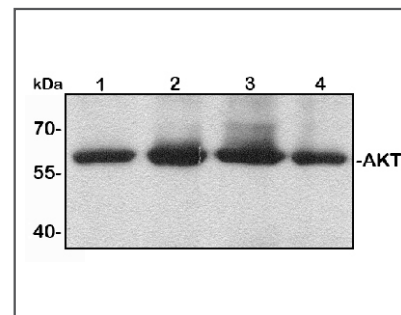
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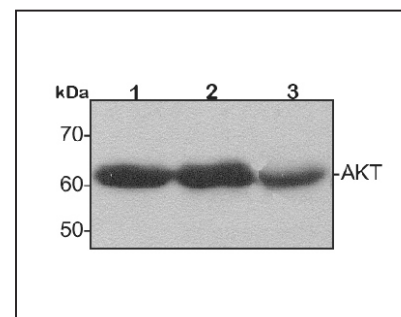
Product Images



Western blot-Anti-AKT pAb

Lane 1: Human HepG2 cell lysate 20μg
Lane 2: Human Hela cell lysate 20μg
Lane 3: Human SW480 cell lysate 20μg
Lane 4: Human BGC-823 cell lysate 20μg

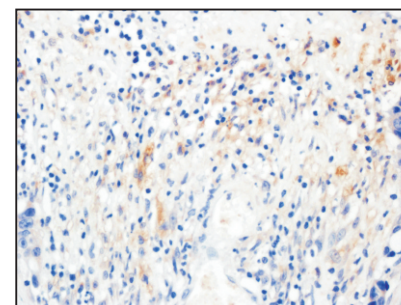
Separation gel: 8% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1h
Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking
Primary antibody: 1:1000 in blocking buffer, 4°C, overnight
Visualization: ECL



Western blot-Anti-AKT pAb

Lane 1: Mouse kidney tissue lysate 30μg
Lane 2: Mouse heart tissue lysate 30μg
Lane 3: Rat stomach tissue lysate 30μg

Separation gel: 8% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1h
Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking
Primary antibody: 1:1000 in blocking buffer, 4°C, overnight
Visualization: ECL



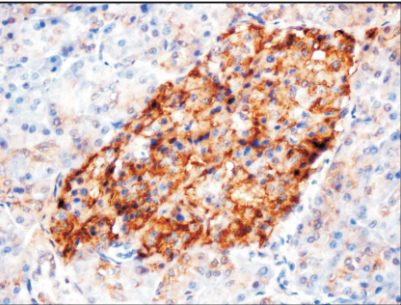
Immunohistochemistry-Anti-AKT pAb

Sample: Human colon cancer tissue
Antigen retrieval: pH 6.0 citrate buffer
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB

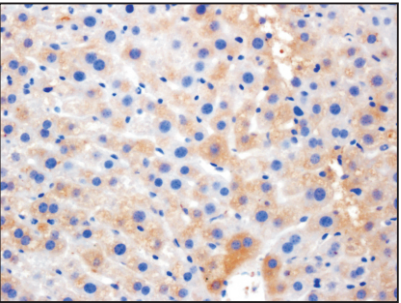
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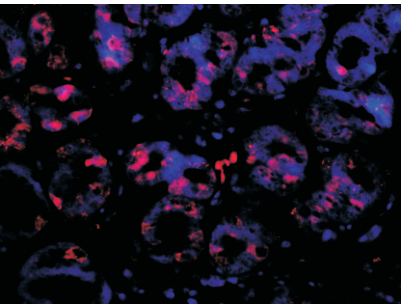
Product Information



Immunohistochemistry-Anti-AKT pAb
Sample: Human pancreatic cancer tissue
Antigen retrieval: pH 6.0 citrate buffer
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB



Immunohistochemistry-Anti-AKT pAb
Sample: Mouse liver tissue
Antigen retrieval: pH 6.0 citrate buffer
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB



Immunofluorescence-Anti-AKT pAb
Sample: Human stomach cancer tissue
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-FITC: 1:150, 37°C, 1h

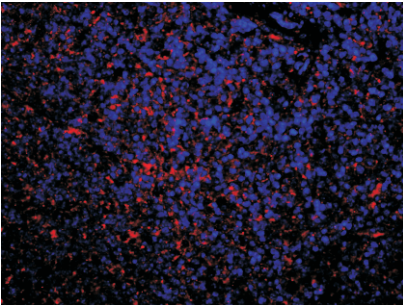


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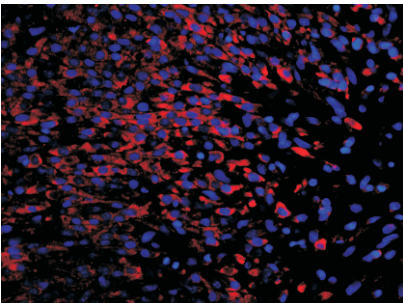
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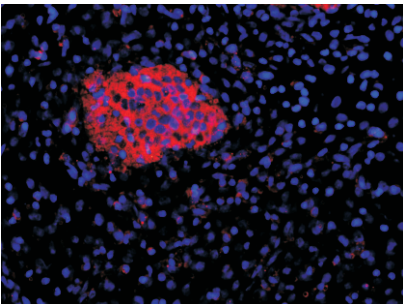
Product Images



Immunofluorescence-Anti-AKT pAb
Sample: Mouse spleen tissue
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-FITC: 1:150, 37°C, 1h



Immunofluorescence-Anti-AKT pAb
Sample: Rat ovary tissue
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-FITC: 1:150, 37°C, 1h



Immunofluorescence-Anti-AKT pAb
Sample: Rat uterus tissue
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-FITC: 1:150, 37°C, 1h



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