

## Anti-P-AKT1(Ser 473) Rabbit pAb



WL02908

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-P-AKT1(Ser 473) Rabbit pAb		
<b>Source</b>	Rabbit		
<b>Species reactivity</b>	Mouse, Rat		
<b>Tested applications</b>	Western blot	1:500-1:1000	
	Immunohistochemistry	1:100-1:400	
	<i>*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.</i>		
<b>Molecular Wt.</b>	60 kDa		
<b>Pack size</b>	50/100/200/500/1000µl		
<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>		
<b>Storage buffer</b>	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 P-AKT1(Ser473).

**Purification**

Polyclonal antibody was purified by immunogen affinity chromatography.

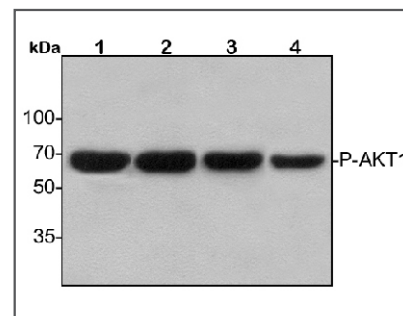
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## Product Images



## Western blot-Anti-P-AKT1(Ser 473) pAb

Lane 1: Mouse lung tissue lysate 30µg

Lane 2: Mouse colon tissue lysate 30µg

Lane 3: Rat stomach tissue lysate 30µg

Lane 4: Rat spleen tissue lysate 30µg

Separation gel: 8% polyacrylamide

Electrophoresis: 100V, 4°C, 3h

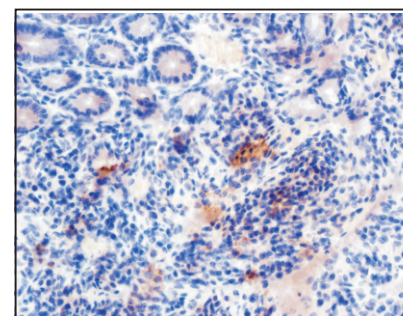
Transmembrane: 100V, 4°C, 1h

Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking

Primary antibody: 1:500 in blocking buffer, 4°C, overnight

Secondary antibody ( WLA023a ) : 1:5000-1:10000, 45min

Detection: ECL, 30s-2min



## Immunohistochemistry-Anti-P-AKT1(Ser 473) pAb

Sample: Rat colon tissue

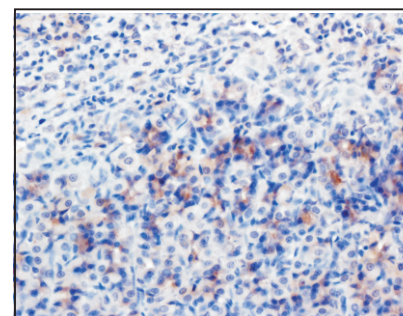
Antigen retrieval: pH 9.0 Tris-EDTA buffer

Primary antibody: 1:150, 4°C, overnight

Secondary antibody-Biotin: 1:150, 37°C, 1h

Streptavidin-HRP: 1:200, 37°C, 30min

Color Developing: DAB



## Immunohistochemistry-Anti-P-AKT1(Ser 473) pAb

Sample: Rat stomach tissue

Antigen retrieval: pH 9.0 Tris-EDTA buffer

Primary antibody: 1:150, 4°C, overnight

Secondary antibody-Biotin: 1:150, 37°C, 1h

Streptavidin-HRP: 1:200, 37°C, 30min

Color Developing: DAB