

## Phospho-Akt(Ser473) Ab

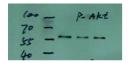
Cat.#: AF0016 Size: 100ul,200ul	Concn.: 1mg/ml Source: Rabbit	Mol.Wt.: 60kDa Clonality: Polyclonal
Application:	WB 1:500-1:2000 IHC 1:50-1:200 IF/ICC 1:100-1:500	
Reactivity:	Human,Mouse,Rat	
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.	
Specificity:	Phospho-Akt(Ser473) Ab detects endogenous levels of Akt only when phosphorylated at Sersine 473.	
Immunogen:	A synthesized peptide derived from human Akt around the phosphorylation site of Sersine 473.	
Uniprot:	P31749/P31751/Q9Y243	
Description:	an AGC kinase that plays a criti balance between survival and A and activated by PDK1 in the Pl survival signals downstream of growth factor receptors by phos proteins. First found in a mouse Tumorigenic in a mouse lympho phospho-Akt staining) and/or ov cancers including breast, prosta ovarian and colorectal. Inhibitor include tuberin, Bad, Forkhead caspase-9, and glycogen syntha	APOptosis. Phosphorylated 3 kinase pathway. Mediates PI3 kinase and several sphorylating APOpototic e transforming retrovirus. The model and activated (by verexpressed in a number of ate, lung, pancreatic, liver, r: RX-0201. Substrates transcription factors,
Subcellular Location:	Cytoplasm. Nucleus. Cell memb activation by integrin-linked pro translocation is enhanced by in Phosphorylation on Tyr-176 by to the cell membrane where it i phosphorylations on Thr-308 ar activation and the activated for nucleus.	otein kinase 1 (ILK1). Nuclear teraction with TCL1A. TNK2 results in its localization s targeted for further nd Ser-473 leading to its
Tissue Specificity:	Expressed in prostate cancer ar normal to the malignant state ( in all human cell types so far ar phosphorylated form shows a s expression in breast cancers du i.e. normal to hyperplasia (ADH (DCIS), invasive ductal carcinon metastatic (LNMM) stages.	at protein level). Expressed nalyzed. The Tyr-176 ignificant increase in uring the progressive stages ), ductal carcinoma in situ



Similarity:	Binding of the PH domain to phosphatidylinositol 3,4,5-trisphosphate (PI(3,4,5)P3) following phosphatidylinositol 3-kinase alpha (PIK3CA) activity results in its targeting to the plasma membrane. The PH domain mediates interaction with TNK2 and Tyr-176 is also essential for this interaction. The AGC-kinase C-terminal mediates interaction with THEM4.Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC subfamily.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



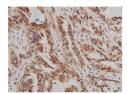
This image is a courtesy of anonymous review.



Western blot analysis of Phospho-Akt(Ser473) Ab expression in cells lysates.



AF0016 at 1/200 staining human lung cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat antirabbit Ab was used as the secondary.



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Phospho-Akt(Ser473) Ab for IHC in human brain tissue



AF0016 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.



AF0016 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab(Red), diluted at 1/600, was used as secondary Ab.

<code>IMPORTANT:</code> For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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