

Phospho-Akt (Ser129) Ab

Cat.#: AF3261 Size: 100ul,200ul	Concn.: 1mg/ml Source: Rabbit	Mol.Wt.: 65kDa Clonality: Polyclonal
Application:	WB 1:500-1:2000, 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 (Ser129) Ab detects endogenous levels of Akt only when phosphorylated at Serine 129.	
Immunogen:	A synthesized peptide derived from human Akt around the phosphorylation site of Serine 129.	
Uniprot:	P31749/P31751/Q9Y243	
Description:	an AGC kinase that plays a critical role in controlling the balance between survival and AP0ptosis. Phosphorylated and activated by PDK1 in the PI3 kinase pathway.	
Subcellular Location:	Cytoplasm. Nucleus. Cell membrane. Nucleus after activation by integrin-linked protein kinase 1 (ILK1). Nuclear translocation is enhanced by interaction with TCL1A. Phosphorylation on Tyr-176 by TNK2 results in its localization to the cell membrane where it is targeted for further phosphorylations on Thr-308 and Ser-473 leading to its activation and the activated form translocates to the nucleus.	
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 halyzed. 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	



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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.



Western blot analysis of Phospho-Akt (Ser129) Ab expression in PMA treated A549 cells lysates. The lane on the right is treated with the antigen-specific peptide.



AF3261 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.

<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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