

Phospho-Akt1 (Thr450) Ab

Cat.#: AF3259 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-Akt1 (Thr450) Ab detects endogenous levels of Akt1 only when phosphorylated at Threonine 450.	
Immunogen:	A synthesized peptide derived from human Akt1 around the phosphorylation site of Threonine 450.	
Uniprot:	P31749	
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 a normal to the malignant state (in all human cell types so far a phosphorylated form shows a s expression in breast cancers du i.e. normal to hyperplasia (ADH (DCIS), invasive ductal carcinor metastatic (LNMM) stages.	(at protein level). Expressed nalyzed. The Tyr-176 significant increase in uring the progressive stages I), ductal carcinoma in situ
Similarity:	Binding of the PH domain to ph 3,4,5-trisphosphate (PI(3,4,5)P3 phosphatidylinositol 3-kinase a in its targeting to the plasma m mediates interaction with TNK2 for this interaction.The AGC-kin interaction with THEM4.Belongs superfamily. AGC Ser/Thr prote	3) following lpha (PIK3CA) activity results nembrane. The PH domain 2 and Tyr-176 is also essential base C-terminal mediates s to the protein kinase

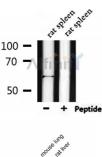


Affinity Biosciences website:www.affbiotech.com order:order@affbiotech.com

subfamily.

Storage Condition and Buffer:

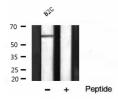
Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis of extracts from rat spleen, using Phospho-Akt1 (Thr450) Ab.



Western blot analysis of Akt1 phosphorylation expression in mouse lung and rat liver lysates, The lane on the right is treated with the antigen-specific peptide.



Western blot analysis of Akt1 phosphorylation expression in B2C whole cell lysates,The lane on the right is treated with the antigen-specific peptide.



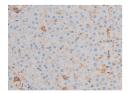
AF3259 at 1/200 staining Rat spleen tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



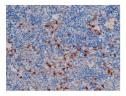
AF3259 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



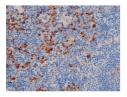
Affinity Biosciences website:www.affbiotech.com order:order@affbiotech.com



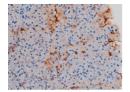
AF3259 at 1/200 staining Rat liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF3259 at 1/200 staining Mouse spleen 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 anti-rabbit Ab was used as the secondary.



AF3259 at 1/200 staining Mouse spleen 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 anti-rabbit Ab was used as the secondary.



AF3259 at 1/200 staining Mouse pancreas 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.



AF3259 at 1/200 staining Mouse heart 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 anti-rabbit Ab was used as the secondary.



AF3259 at 1/200 staining Human esophagus 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.





AF3259 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.

For Research Use Only. Not for use in diagnostic and therapeutic procedures. Not for resale without express authorization.