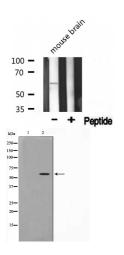


Phospho-AKT1(Thr308) Ab

Cat.#: AF0832 Size: 100ul,200ul	Concn.: 1mg/ml Source: Rabbit	Mol.Wt.: 56-60kDa 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-AKT1(Thr308) Ab detects endogenous levels of AKT1 only when phosphorylated at Threonine 308.	
Immunogen:	A synthesized peptide derived from human AKT1 around the phosphorylation site of Threonine 308.	
Uniprot:	P31749	
Description:	an AGC kinase that plays a critical role in controlling the balance between survival and APOptosis. Phosphorylated and activated by PDK1 in the PI3 kinase pathway. Mediates survival signals downstream of PI3 kinase and several growth factor receptors by phosphorylating APOpototic proteins. First found in a mouse transforming retrovirus. Tumorigenic in a mouse lymphoma model and activated (by phospho-Akt staining) and/or overexpressed in a number of cancers including breast, prostate, lung, pancreatic, liver, ovarian and colorectal. Inhibitor: RX-0201. Substrates include tuberin, Bad, Forkhead transcription factors, caspase-9, and glycogen synthase kinase-3.	
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.



Western blot analysis of Phospho-AKT1(Thr308) expression in Mouse brain lysate

Western blot analysis on 293 cell lysate using Phospho-AKT1(Thr308) Ab,The lane on the left is treated with the antigen-specific peptide.



AF0832 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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