



## AKT1 (Phospho-Thr450) Antibody

#14122

**Catalog Number:** 14122-1, 14122-2

**Amount:** 50µg/50µl, 100µg/100µl

**Swiss-Prot No. :** P31749

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage/Stability:** Store at -20°C/1 year

**Immunogen:** The antiserum was produced against synthesized phosphopeptide derived from Human AKT1 around the phosphorylation site of Threonine 450

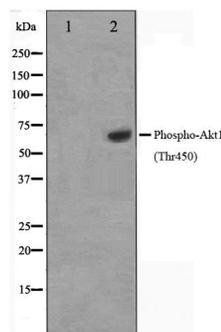
**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Specificity/Sensitivity:** Phospho-AKT1 (Thr450) Antibody detects endogenous levels of AKT1 only when phosphorylated at Threonine 450

**Reactivity:** Human, Mouse, Rat

### Applications:

Predicted MW: 60kd      WB: 1:500~1:2000      IHC: 1:50-200



Western blot analysis of Akt1 phosphorylation expression in PDGF treated NIH-3T3 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

**Background :** 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. Mediates survival signals downstream of PI3 kinase and several growth factor receptors by phosphorylating AP0ptotic 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 tuberlin, Bad, Forkhead transcription factors, caspase-9, and glycogen synthase kinase-3.