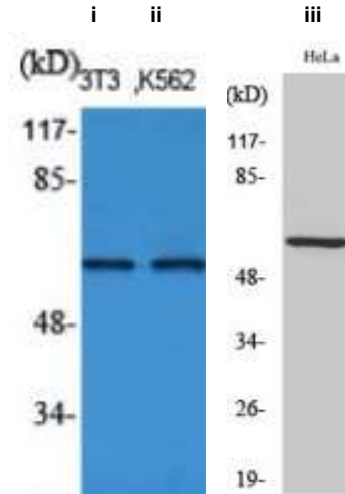


## Phospho-Akt1 (Ser246) Antibody

<b>CATALOG NO:</b>	A1245-100 100 µl
<b>ALTERNATE NAMES:</b>	AKT1; PKB; RAC; RAC-alpha serine/threonine-protein kinase; Protein kinase B; PKB; Protein kinase B alpha; PKB alpha; Proto-oncogene c-Akt; RAC-PK-alpha
<b>AMOUNT:</b>	100 µl (1 mg/ml)
<b>IMMUNOGEN:</b>	Synthesized peptide derived from human ASK 1 around the phosphorylation site of S83, (20-100aa)
<b>MOL. WEIGHT</b>	155 kDa
<b>HOST/ISOTYPE:</b>	Rabbit IgG
<b>SPECIES REACTIVITY:</b>	Human, mouse, rat
<b>SPECIFICITY:</b>	Phospho-ASK 1 (S83) Polyclonal Antibody detects endogenous levels of Akt1 protein only when phosphorylated at S246.
<b>PURIFICATION:</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide
<b>STORAGE CONDITIONS:</b>	Store at -20°C. Avoid repeated freeze/thaw cycles.
<b>DESCRIPTION:</b>	The serine/threonine kinase Akt family contains several members, including Akt1 (also designated PKB or RacPK), Akt2 and Akt 3, which exhibit sequence homology with the protein kinase A and C families and are encoded by the c-Akt proto-oncogene. They have a pleckstrin homology domain. Akt1 and Akt2 are activated by PDGF stimulation. This activation is dependent on PDGFR- $\beta$ tyrosine residues 740 and 751, which bind the subunit of the phosphatidylinositol 3-kinase (PI 3-kinase) complex. Activation of Akt1 by insulin or insulin-growth factor-1(IGF-1) results in phosphorylation of both Thr 308 and Ser 473. Phosphorylation of both residues is important to generate a high level of Akt1 activity, and the phosphorylation of Thr 308 is not dependent on phosphorylation of Ser 473 in vivo. Thus, Akt proteins become phosphorylated and activated in insulin/IGF-1-stimulated cells by an upstream kinase(s). The activation of Akt1 and Akt2 is inhibited by the PI kinase inhibitor wortmannin, suggesting that the protein signals downstream of the PI kinases.
<b>APPLICATION:</b>	WB 1:500-1:2000; IHC 1:100-1:300; IF 1:200-1:1000; ELISA 1:5000 <b>Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.</b>



Western Blot analysis of specific cells using Phospho-Akt1 (Ser246) Antibody in (i) 3T3 (ii) K562 (iii) HeLa cell lysates

### RELATED PRODUCTS:

- AKT1 (Thr308) Antibody (**Cat. No. 6742-100**)
- AKT1 Antibody (CT) (**Cat. No. 6744-100**)
- AKT1 Antibody (NT) (**Cat. No. 6745--100**)
- Anti-ACTA2 Rabbit Monoclonal Antibody (**Cat. No. A1118-50**)
- Anti-Akt1 Rabbit Monoclonal Antibody (**Cat. No. A1117-50**)
- Phospho-AKT1 (Ser473) Polyclonal Antibody (**Cat. No. A1041-100**)
- Phospho-AKT1 (Tyr474) polyclonal Antibody (**Cat. No. A1036-100**)
- AKT1 (T450) Antibody (CT) (**Cat. No. 6743-100**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**