

Anti-Phospho-AKT1 (Thr450) Antibody (2R55)

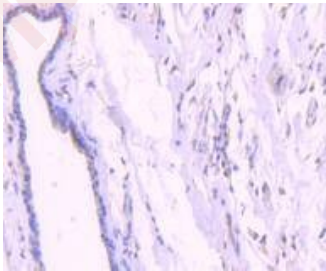
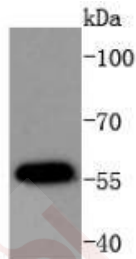
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 56 kDa.
Clone:	2R55
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of Phospho-AKT1 (T450) on MCF-7 cells lysates using anti-Phospho-AKT1 (T450) antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Phospho-AKT1 (T450) antibody. Counter stained with hematoxylin.



Application:	IHC,IP,WB
Recommended	WB: 1:1000-2000; IHC: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: A synthesized phosphopeptide: human AKT1 around the phosphorylation site of Thr450
Antigen Species: Human
Uniprot ID: P31749
Synonyms: AKT1 (p-Thr450);p-AKT1 (Thr450);AKT1 (p-T450);p-AKT1 (T450)

Research Background

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. All members of the Akt family have a pleckstrin homology domain. Akt1 and Akt2 are activated by PDGF stimulation. This activation is dependent on PDGFR- β ; 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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