AKT2 (phospho-S474) polyclonal antibody

Catalog: BS4720 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

AKT, also known as protein kinase B (PKB), is a 57 kDa serine/threonine protein kinase. There are three mammalian isoforms of Akt: AKT1 (PKB alpha), AKT2 (PKB beta) and AKT3 (PKB gamma) with AKT2 and AKT3 being approximately 82% identical with the AKT1 isoform. Each isoform has a pleckstrin homology (PH) domain, a kinase domain and a carboxy terminal regulatory domain. AKT was originally cloned from the retrovirus AKT8, and is a key regulator of many signal transduction pathways. Its tight control over cell proliferation and cell viability are manifold; overexpression or inappropriate activation of AKT has been seen in many types of cancer.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 60 kDa

Swiss-Prot:

P31751

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

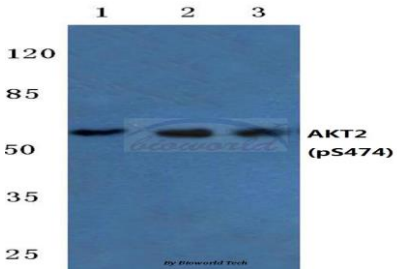
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

p-AKT2 (S474) polyclonal antibody detects endogenous levels of AKT2 protein only when phosphorylated at Ser474.This antibody does not cross-react with AKT1 and AKT3 protein when phosphorylated at the corresponding residues.

DATA:

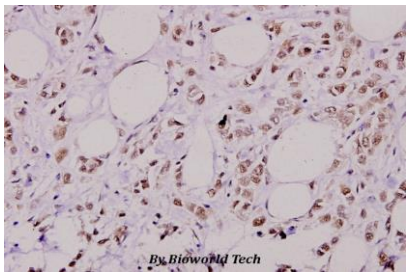


Western blot (WB) analysis of p-AKT2 (S474) polyclonal antibody at 1:500 dilution

Lane1:Hela cell lysate treated with TNFa

Lane2:sp2/0 cell lysate treated with TNFa

Lane3:PC12 cell lysate treated with H2O2



Immunohistochemistry (IHC) analyzes of p-AKT2 (S474) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

Note:

For research use only, not for use in diagnostic procedure.

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