AKT (phospho-S473) polyclonal antibody

Catalog: BCP00186 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:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 60 kDa

Swiss-Prot:

P31749/P31751/Q9Y243

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

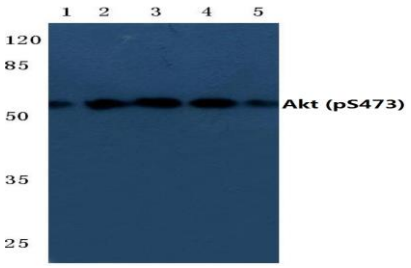
Storage&Stability:

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

Specificity:

p-AKT (S473) polyclonal antibody detects endogenous levels of AKT1 only when phosphorylated at Ser473. This antibody also recognizes AKT2 and AKT3 when phosphorylated at the corresponding residues.

DATA:



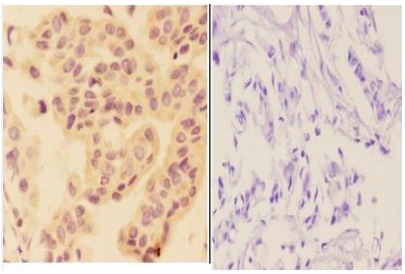
Western blot (WB) analysis of AKT (phospho-S473) polyclonal antibody at 1:500 dilution

Lane1:L02 whole cell lysate

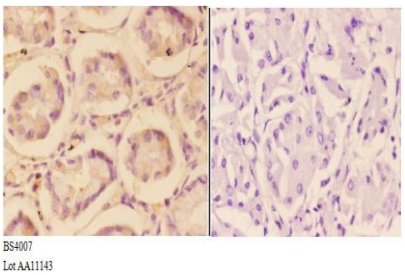
Lane2:L02 starved with PBS(1×PBS,PH7.4) for 1 houre whole cell lysate

Lane3:L02 starved with PBS(1×PBS,PH7.4) for 1 houre then treated with DMEM(10%FBS) for 5 minutes whole cell lysate

Lane4:L02 starved with PBS(1×PBS,PH7.4) for 1 houre then treated with DMEM(10%FBS) for 10 minutes whole cell lysate



Immunohistochemistry (IHC) analyzes of AKT (phospho-S473) pAb in paraffin-embedded human breast carcinoma tissue at 1:50,showing cytoplasm and nucleus staining.Negative control (the right)Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



Immunohistochemistry (IHC) analyzes of AKT (phospho-S473) pAb in paraffin-embedded human stomach carcinoma tissue at 1:50,showing cytoplasm and nucleus staining.Negative control (the right)Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

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

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