German Research Products - GRP GmbH
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Product Datasheet

AKT (phospho Ser473) antibody
GRP71

Description

The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]

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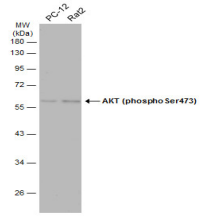
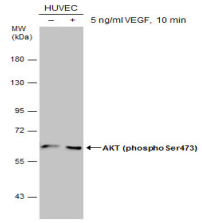
Species/Host	Rabbit
Reactivity	Human, Mouse, Rat
Conjugation	Unconjugated
Tested Applications	ICC, IF, IHC-P, IP, WB
Immunogen	Carrier-protein conjugated synthetic peptide corresponding to residues around human AKT (phospho Ser473). The exact sequence is proprietary.
Form/Appearance	Liquid: 1XPBS, 1% BSA, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.
Concentration	0.06 mg/ml
Storage	Store as concentrated solution. Centrifuge briefly prior to openin vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Note	For research use only.
Isotype	IgG
Clonality	Polyclonal
Purity	Purified by antigen-affinity chromatography.
Uniprot ID	**P31749**
Entrez	**207**
Dilution Range	WB: 1:500-1:3000,ICC: 1:100-1:1000,IP: 1:100-1:500



Various whole cell extracts (30 ?g) were separated by 10% SDS-PAGE, and the membrane was blotted with AKT (phospho Ser473) antibody (GRP523) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the



Untreated (â€“) and treated (+) HUVEC whole cell extracts (30 ?g) were separated by 7.5% SDS-PAGE, and the membrane was blotted with AKT (phospho Ser473) antibody (GRP523) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detec