

Datasheet for ABIN7120676 **anti-AKT3 antibody**



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Overview

Quantity:	100 µg
Target:	AKT3
Reactivity:	Human, Mouse, Rat, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKT3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	v-akt murine thymoma viral oncogene homolog 3(protein kinase B, gamma)
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	AKT3
Alternative Name:	AKT3 (AKT3 Products)
Background:	Synonyms:AKT3, DKFZp434N0250, PKB GAMMA, PKBG, PRKBG, Protein kinase Akt 3, Protein kinase B gamma, RAC gamma, RAC PK gamma, STK 2 Background:AKT3 is one of 3 closely related serine/threonine-protein kinases(AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and

Target Details

angiogenesis. This is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Over 100 substrate candidates have been reported so far, but for most of them, no isoform specificity has been reported. AKT3 is the least studied AKT isoform. It plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-regulation and down-regulation of MMP13 via IL13. Required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands. Down-regulation by RNA interference reduces the expression of the phosphorylated form of BAD, resulting in the induction of caspase-dependent apoptosis.

Molecular Weight: 54 kDa

Gene ID: 10000

UniProt: [Q9Y243](#)

Pathways: [PI3K-Akt Signaling](#), [RTK Signaling](#), [TLR Signaling](#), [Hepatitis C](#), [VEGF Signaling](#)

Application Details

Application Notes: WB: 1:200-1:2000, IHC: 1:20-1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Expiry Date: 12 months