Datasheet for ABIN7599654

anti-AKT3 antibody (AA 104-154)

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Overview

Quantity:	100 µg
Target:	AKT3
Binding Specificity:	AA 104-154
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKT3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-AKT3 Antibody Picoband®
Immunogen:	E.coli-derived human AKT3 recombinant protein (Position: A104-L154).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-AKT3 Antibody Picoband® (ABIN7599654). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	AKT3
Alternative Name:	AKT3 (AKT3 Products)
Background:	Synonyms: Sacsin, DnaJ homolog subfamily C member 29, DNAJC29, SACS, KIAA0730 Tissue Specificity: Highly expressed in the central nervous system. Also found in skeletal muscle and at low levels in pancreas. Background: RAC-gamma serine/threonine-protein kinase, also known as protein kinase Akt-3, is an enzyme that in humans is encoded by the AKT3 gene. This gene is mapped to 1q43-q44. The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor(PDGF), insulin, and insulin-like growth factor 1(IGF1). AKT3 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. This gene is required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands.
Molecular Weight:	60 kDa
Gene ID:	10000
UniProt:	Q9Y243
Pathways:	PI3K-Akt Signaling, RTK Signaling, TLR Signaling, Hepatitis C, VEGF Signaling

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 1. Boland, E., Clayton-Smith, J., Woo, V. G., McKee, S., Manson, F. D. C., Medne, L., Zackai, E., Swanson, E. A., Fitzpatrick, D., Millen, K. J., Sherr, E. H., Dobyns, W. B., Black, G. C. M. Mapping of deletion and translocation breakpoints in 1q44 implicates the serine/threonine kinase AKT3 in postnatal microcephaly and agenesis of the corpus callosum. Am. J. Hum. Genet. 81: 292-303, 2007. 2. Poduri, A., Evrony, G. D., Cai, X., Elhosary, P. C., Beroukhim, R., Lehtinen, M. K., Hills, L. B., Heinzen, E. L., Hill, A., Hill, R. S., Barry, B. J., Bourgeois, B. F. D., Riviello, J. J., Barkovich, A. J., Black, P. M., Ligon, K. L., Walsh, C. A. Somatic activation of AKT3 causes hemispheric developmental brain malformations. Neuron 74: 41-48, 2012.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.