

Product Datasheet

Akt Antibody

Catalog No: AY0420

Reactivity: Human, Mouse, Rat

Isotype: Rabbit IgG

Applications: WB, IHC, IF



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Information

UniProt ID: P31749

All Names: AKT, AKT1 kinase, C-AKT, EC 2.7.11.1, PKB, PKB-alpha, Protein kinase B, RAC, RAC-PK-alpha, RAC-alpha serine/threonine kinase, kinase Akt1

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 56kDa

Application

WB: 1:500~1:3000

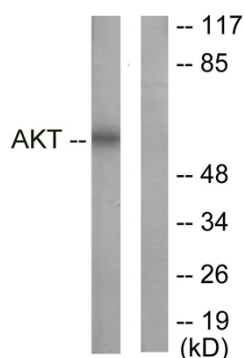
IHC: 1:50~1:100

IF: 1:100~1:500

ELISA: 1:20000

Background

An AGC kinase that plays a critical role in controlling the balance between survival and AP0ptosis. Phosphorylated and activated by PDK1 in the PI3 kinase pathway. Mediates survival signals downstream of PI3 kinase and several growth factor receptors by phosphorylating AP0ptotic proteins. First found in a mouse transforming retrovirus. Tumorigenic in a mouse lymphoma model and activated (by phospho-Akt staining) and/or overexpressed in a number of cancers including breast, prostate, lung, pancreatic, liver, ovarian and colorectal. Inhibitor: RX-0201. Substrates include tuberin, Bad, Forkhead transcription factors, caspase-9, and glycogen synthase kinase-3.



Western blot analysis of extracts from NIH/3T3 cells, treated with Insulin (0.01U/ml, 15mins), using Akt antibody.

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