







AKT1/3 (DGR12893) Rabbit mAb

db12536 Package : 10μL 20μL 50μL 100μL

Product Name: AKT1/3 (DGR12893) Rabbit mAb

Cat.No.: db12536

Synonyms: AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA

Application : WB, IHC, ICC/IF, IP **Reactivity :** Human, Mouse, Rat

Host species: Rabbit

BackgroundThe 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 plateletderived 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. Mutations in this gene have been

associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been

found for this gene. [provided by RefSeq, Jul 2011]

Immunogen A synthetic peptide of human AKT1

Gene ID 207

Swiss Prot P31749

Synonyms AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA

Reactivity Human, Mouse, Rat

Application WB, IHC, ICC/IF, IP

Recommended dilution WB: 1:1000

IHC: 1:50-1:200 ICC/IF: 1:200

IP: 1:50

Calculated MW 56 kDa

Observed MW 56 kDa

Host species Rabbit





Clonality Monoclonal

Clonality No. DGR12893

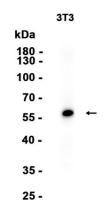
Isotype IgG

Purity Affinity Purification

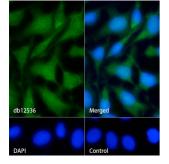
Conjugation Un-conjugated

Storage Stability Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium

azide and 0.05% BSA. Stable for 12 months from date of receipt.



Western blot analysis of extracts from 3T3 cells using db12536 at 1:1000.



Immunofluorescence analysis of HeLa cells labelling AKT1/3 with db12536.

The cells were fixed with cold 100% methanol (10min, 4°C) and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db12536 (1:200) at room temperature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.