BioVision 07/16 For research use only

Anti-Akt1 Rabbit Monoclonal Antibody

CATALOG NO: A1117-50

ALTERNATIVE NAMES: PKB, RAC, Protein kinase B, Protein kinase B alpha, Short PKB

alpha, Proto-oncogene c-Akt, RAC-PK-alpha, RAC-alpha

serine/threonine-protein kinase

AMOUNT: 50 µl

CLONE: RM252

IMMUNOGEN: A synthetic peptide corresponding to the C-terminus of human

Akt

MOLECULAR WEIGHT: 56 kDa

HOST/ISOTYPE: Rabbit IgG

SPECIES REACTIVITY: Human

PURIFICATION: Protein A affinity purified from an animal origin-free culture

supernatant

FORM: Liquid

FORMULATION: 50% Glycerol/PBS with 1% BSA and 0.09% sodium azide

STORAGE CONDITIONS: For long term storage store at -20°C in small aliquots to prevent

freeze-thaw cycles.

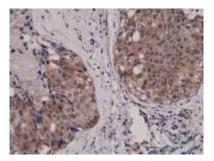
DESCRIPTION: The serine/threonine kinase Akt family contains several members, including Akt 1 (also designated PKB or PacPK). Akt 2 and Akt 3

including Akt1 (also designated PKB or RacPK), Akt2 and Akt 3, which exhibit sequence homology with the protein kinase A and C families and are encoded by the c-Akt proto-oncogene. They have a pleckstrin homology domain. Akt1 and Akt2 are activated by PDGF stimulation. This activation is dependent on PDGFR-J tyrosine residues 740 and 751, which bind the subunit of the phosphatidylinositol 3-kinase (PI 3-kinase) complex. Activation of Akt1 by insulin or insulin-growth factor-1(IGF-1) results in phosphorylation of both Thr 308 and Ser 473. Phosphorylation of both residues is important to generate a high level of Akt1 activity, and the phosphorylation of Thr 308 is not dependent on phosphorylated and activated in insulin/IGF-1-stimulated cells by an upstream kinase(s). The activation of Akt1 and Akt2 is inhibited by the PI kinase inhibitor wortmannin, suggesting that the protein

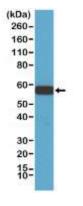
signals downstream of the PI kinases.

APPLICATION: IHC: 1:500 -1:1000 dilution; WB: 1:1000 - 1:2000 dilution

Note: This information is only intended as a guide. The



Immunohistochemical staining of formalin fixed and paraffin embedded human breast cancer tissue sections using Anti-Akt1 RM252 at a 1:1000 dilution.



Western Blot of 293 cell lysate, using Anti-Akt1 RM252 at a 1:1000 dilution, showed Akt1 (~56 kDa) expression in 293 cells.

RELATED PRODUCTS

- AKT/PKB Antibody (Cat. No. 3247-100)
- AKT2 Antibody (Cat. No. 3155-100)
- AKT3 Antibody (Cat. No. 3159-100)
- AKT3 Antibody (Cat. No. 3162-100)
- AKT3 Antibody (Cat. No. 3163-100)
- AKT3 Antibody (Cat. No. 3164-100)
- Phospho-AKT Antibody (Cat. No. 3257-100)

FOR RESEARCH USE ONLY! Not to be used on humans.

