

Mouse Monoclonal Antibody to

PKB α /Akt1

clone 5G12

Order No.: 0144-100/PKBa-5G12

Size (μ g) 100

Lot No.: 0144S



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03/080507F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, rat, dog	WB, ELISA, IHC	60 kDa	Neuro2A	aa 107-122	peptide conjugated to KLH

Background and Specificity:

The PKB (RAC/akt) protein kinases are a family of second messenger-regulated serine/threonine kinases. Three mammalian isoforms (alpha, beta, gamma) have been identified so far; the alpha-isoform being the cellular homologue of the v-akt oncogene. Stimulation of cells with growth factors leads to activation of PKB by a phosphoinositide-3-kinase dependent signal transduction pathway.

Mab PKBa-5G12 specifically recognizes the alpha isoform of PKB (PKB α /Akt1).

The antibody crossreacts in immunoblot applications with an unknown protein of ca. 120kDa expressed in human tumor cell lines.

Related Products

mab to PKB (phospho-Ser 473)

#0108-100/PKB-11E6

mab to PKB (dephospho-Ser 473)

#0049-100/PKB-11A11

mab to PKB (C-terminus)

#0119-100/PKB-5C10

mab to PKB β (Akt-2)

#0179-100/PKBb-8B7

mab to Raptor

#0255-100/RAPTOR-10E10

mab to Rictor

#0250-100/Rictor-1G11

Purification: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

Formulation: liquid; 0.1mg/ml in in PBS/0.09% Na-Azide/PEG and Sucrose/50% Glycerol

Reconstitution:

Stability: Aliquote and store at -20°C up to 1 year.

Avoid repeated freeze / thaw cycles.

Positive Control: #0911: Cell lysate from untreated Neuro2A cells.

Immunoblotting: 0.5 μ g/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

Immunocytochemistry: ND

ELISA: use at 0.05 μ g/ml

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