

## Mouse Monoclonal Antibody to

# PKB $\alpha$ /Akt1 clone 5G12

**Order No.:** 0144-100/PKBa-5G12  
**Size ( $\mu$ 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 $\alpha$ /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 $\beta$  (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  $\mu$ 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  $\mu$ g/ml

**All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.**