

Mouse Monoclonal Antibody to

PKB/Akt (C-terminus)

clone 5C10

Order No.: 0119-100/PKB-5C10

Size (µg) 100

Lot No.: 0119S



www.nanotools.de

orders & support:

email: info@nanotools.de

phone: +49-7641-455 670

fax: +49-7641-455 671

02/220307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB, ELISA	60 kDa	HepG2	C-terminus (aa 466-480)	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 PKB-5C10 specifically recognizes the C-terminus of protein kinase B (aa 466-480).

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 α (Akt-1)

#0144-100/PKBa-5G12

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:	lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.
Reconstitution:	Reconstitute with 1 ml H ₂ O (15 min, RT).
Stability:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

Avoid repeated freeze / thaw cycles.

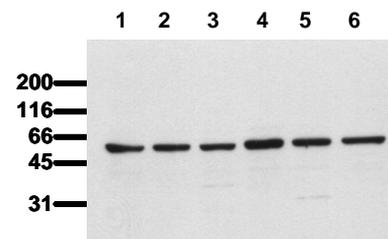
Positive Control: #0811: Cell lysate from untreated HepG2 cells.

Immunoblotting: 0.5 µg/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 µg/ml



Detection of endogenous PKB

Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab PKB-5C10 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 3 min).

lane 1: SW480; lane 2: SW620; lane 3: HT29; lane 4: MCF-7; lane 5: MDA-MB 231; lane 6: T47D

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