

Mouse Monoclonal Antibody to

PKB β /Akt2

clone 8B7

Order No.: 0179-100/PKBb-8B7

Size (μ g) 100

Lot No.: 0179S



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03/080507F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG2a	human	WB, ELISA, IHC	60 kDa	HepG2	aa 107-123	peptide conjugated to hemocyanin

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 PKBb-8B7 specifically recognizes the beta isoform of PKB (PKB β /Akt2).

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 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): 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.

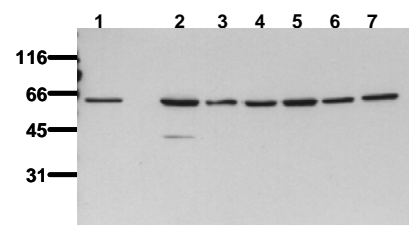
Positive Control: #0811: Cell lysate from untreated HepG2 cells.

Immunoblotting: 1 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 0.1 μ g/ml



Detection of endogenous akt2

Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with mab PKB-8B7 (0.5 μ g/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).
 lane 1: A431; lane 2: SW480; lane 3: SW620; lane 4: HT29; lane 5: MCF7; lane 6: MDA-MB-231; lane 7: T47D

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