

## Mouse Monoclonal Antibody to

# PKB/Akt (phospho-Ser 473)

## clone 11E6

**Order No.:** 0108-100/PKB-11E6

**Size (µg)** 100

**Lot No.:** 0108S



[www.nanotools.de](http://www.nanotools.de)

**orders & support:**

email: [info@nanotools.de](mailto:info@nanotools.de)

phone: +49-7641-455 670

fax: +49-7641-455 671

03/080507F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB, ELISA, IHC, flow cytometry	60 kDa	HepG2	phosphoserine 473 P Q F pS Y S A	phosphopeptide 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. Activated PKB is phosphorylated at serine 473 (mTOR/Rictor or DNA-PK) and threonine 308 (PDK1).

**Mab PKB-11E6** specifically recognizes PKB phosphorylated at serine 473 in Western blot and ELISA applications.

### Related Products

**mab to PKB (C-terminus)**  
#0119-100/PKB-5C10

**mab to PKB $\alpha$  (Akt-1)**  
#0144-100/PKBa-5G12

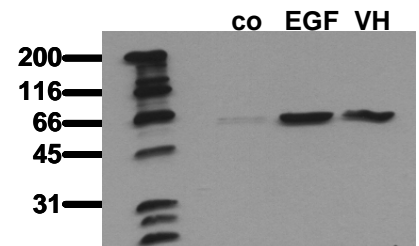
**mab to PKB $\beta$  (Akt-2)**  
#0179-100/PKBb-8B7

**mab to PKB (dephospho-Ser 473)**  
#0049-100/PKB-11A11

**mab to Raptor**  
#0255-100/Raptor-10E10

**mab to Rictor**  
#0250-100/Rictor-1G11

<b>Purification:</b>	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
<b>Formulation:</b>	lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.
<b>Reconstitution:</b>	Reconstitute with 1 ml H <sub>2</sub> O (15 min, RT).
<b>Stability:</b>	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.  <b>Avoid repeated freeze / thaw cycles.</b>
<b>Positive Control:</b>	#0812: Cell lysate from pervanadate treated HepG2 cells.
<b>Immunoblotting:</b>	0.5 µg/ml for HRPO/ECL detection <b>Recommended blocking buffer:</b> Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.
<b>Immunoprecipitation:</b>	ND
<b>Immunocytochemistry:</b>	ND
<b>ELISA:</b>	use at 0.05 µg/ml



**Phosphospecificity**  
Whole cell extracts of control (lane 1), EGF stimulated (lane 2) or pervanadate treated (lane 3) SKOV3 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab PKB-11E6 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

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