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Product datasheet for AM00110PU-N

AKT1 (C-term) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 5C10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5C10
Applications:	ELISA, WB
Recommended Dilution:	**ELISA:** Use at 0.05 µg/ml. **Western Blot:** use at 0.5 µg/ml for HRPO/ECL detection. *Recommended blocking buffer:* Casein/Tween 20 based blocking and blot incubation buffer. *Included Positive Control:* HepG2 untreated (See Protocols).
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH. Epitope: C-terminus (aa 466-480).
Specificity:	This antibody specifically recognizes the C-terminus of protein kinase B (aa 466-480).
Formulation:	1 ml 2 x PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1 ml H_2O (15 min, RT)
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	60 kDa
Gene Name:	AKT serine/threonine kinase 1
Database Link:	Entrez Gene 207 Human P31749

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Background: 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.

Synonyms: Akt-1, RAC-PK-alpha, Protein kinase B, C-AKT

Note: Protocol: **Positive Control Cell lysate provided**
HepG2 unTreated

Formulation: Lyophilized cell lysate from serum starved HepG2 cells.

Reconstitution: Restore by addition of 200 µl H_2O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Storage: Store in aliquots at -20°C. Avoid repeated freezing and thawing.

Applications: The Positive Control Cell Lysate is recommended for Immunoblotting. 20 µl of positive cell lysate correspond to ca. 80.000 cells.
Use 20 µl/lane (mini gel) for HRPO/ECL detection of the target proteins.

Note: The lyophilized cell lysate contains SDS and **are not recommended** for applications with native proteins such as Immunoprecipitation.

Product images:

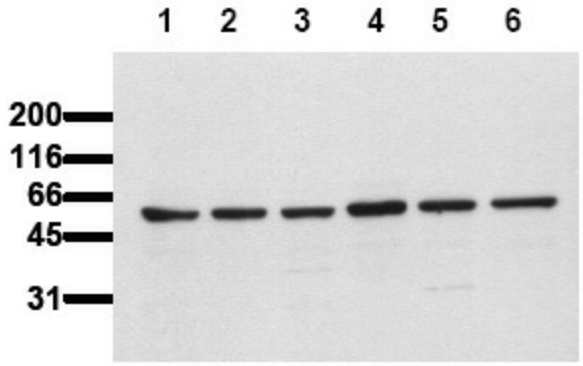

Figure 1. Detection of endogenous PKB Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab PKB-5C10 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 3 min). lane 1: SW480; lane 2: SW620; lane 3: HT29; lane 4: MCF-7; lane 5: MDA-MB 231; lane 6: T47D