

Product datasheet for **AM00108PU-N**

AKT1 (specific) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 5G12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5G12
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: Use at 0.05 µg/ml. Western Blot: Use at 0.5 µg/ml for HRPO/ECL detection. <i>Recommended blocking buffer:</i> Casein/Tween 20 based blocking and blot incubation buffer. <i>Included Positive Control:</i> Cell lysate from untreated Neuro2A cells. The antibody crossreacts in immunoblot applications with an unknown protein of ca. 120kDa expressed in human tumor cell lines. Immunohistochemistry.
Reactivity:	Canine, Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH. Epitope: aa 107-122
Specificity:	This antibody specifically recognizes the alpha isoform of PKB (PKBα/Akt1).
Formulation:	PBS containing 0.09% Sodium Azide, PEG and Sucrose/50% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	60 kDa
Gene Name:	AKT serine/threonine kinase 1



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Database Link: [Entrez Gene 207 Human P31749](#)

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**
Neuro 2A untreated

Formulation: Lyophilized cell lysate from serum starved neuro 2A cells.

Reconstitution: Restore by addition of 200 µl H₂O. 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. 20.000 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.