

Product datasheet for **AM00106PU-N**

AKT1 pSer473 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 11E6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	11E6
Applications:	ELISA, WB
Recommended Dilution:	ELISA: Use at 0.05 µg/ml. Immunoblotting (Western): 0.5 µg/ml for HRPO/ECL detection. <i>Recommended buffer:</i> Casein/Tween 20 based blocking and blot incubation buffer. <i>Provided Positive Control:</i> Cell lysate from pervanadate treated HepG2 cells.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH. Epitope: phosphoserine 473 P Q F pS Y S A
Specificity:	Clone 11E6 specifically recognizes PKB phosphorylated at serine 473.
Formulation:	1 ml 2 x PBS / 0.09% Sodium Azide / PEG and Sucrose. State: Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent Ultrafiltration and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	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.
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. Activated PKB is phosphorylated at serine 473 (mTOR/Rictor or DNA-PK) and threonine 308 (PDK1).

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

Note: A Positive Control cell lysate is provided (please see "protocols" for details).

Protocol: **Positive Control: Cell lysate from HepG2 pervanadate treated**

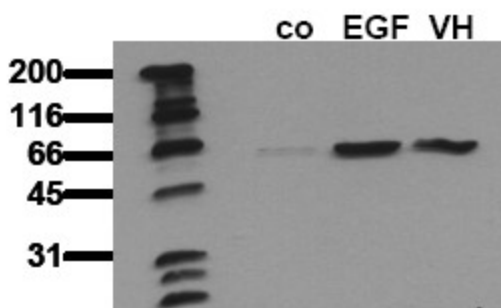
Format: Lyophilized cell lysate from HepG2 cells. Serum starved cells were treated for 15 min. with pervanadate

Reconstitution: Restore by addition of 200 μ l H₂O. After complete solubilization add 200 μ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 μ l of positive control cell lysate correspond to ca. 20.000 cells. Use 20 μ l/lane (mini gel) for HRPO/ECL detection of the target proteins. Please NOTE: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as in immunoprecipitation.

Storage: Aliquot reconstituted product and store frozen. Avoid repeated freezing and thawing

Product images:



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 11E6 (0.5 μ g/ml) for 1h at RT and developed by ECL (exp.time: 30 sec).