

Product datasheet for **AM00106BT-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:	<u>Western Blot</u> : 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. <u>ELISA</u> : 0.05 µg/ml.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH
Specificity:	This antibody specifically recognizes PKB phosphorylated at serine 473 in Western blot and ELISA applications.
Formulation:	PBS/0.09% Na-Azide/PEG and Sucrose Label: Biotin State: Liquid
Concentration:	lot specific
Purification:	Size exclusion chromatography
Conjugation:	Biotin
Storage:	Store the antibody (aliquote 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.
Gene Name:	AKT serine/threonine kinase 1
Database Link:	<u>Entrez Gene 207 Human</u> <u>P31749</u>



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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