

Product datasheet for TA504238

AKT1 Mouse Monoclonal Antibody [Clone ID: OTI1G5]

Product data:

Product Type: Primary Antibodies Clone Name: OTI1G5 **Applications:** FC, IF, IHC, WB Recommended Dilution: WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100 **Reactivity:** Human, Dog, Rat, Mouse Host: Mouse Isotype: lgG1 **Clonality:** Monoclonal Full length human recombiant protein of human AKT1(NP_005154) produced in HEK293T cell. Immunogen: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. Formulation: Concentration: 0.43 mg/ml **Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) **Conjugation:** Unconjugated Storage: Store at -20°C as received. Stable for 12 months from date of receipt. Stability: Predicted Protein Size: 55.5 kDa AKT serine/threonine kinase 1 Gene Name: Database Link: NP 005154 Entrez Gene 11651 MouseEntrez Gene 24185 RatEntrez Gene 490878 DogEntrez Gene 207 Human P31749



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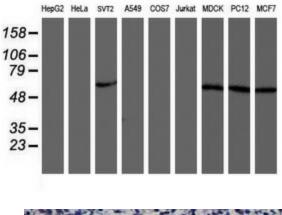
	AKT1 Mouse Monoclonal Antibody [Clone ID: OTI1G5] – TA504238
Background:	The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]
Synonyms:	AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
Protein Pathway	S: Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R- mediated phagocytosis, Focal adhesion, Glioma, Insulin signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Melanoma, mTOR signaling pathway, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Tight junction, Toll-like receptor signaling pathway, VEGF signaling pathway

Product images:

170	-	
130	-	
100	-	
70	-	
55	-	
40	-	
35	_	
25	-	
15	-	
10	-	

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AKT1 ([RC220257], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AKT1. Positive lysates [LY401580] (100ug) and [LC401580] (20ug) can be purchased separately from OriGene.

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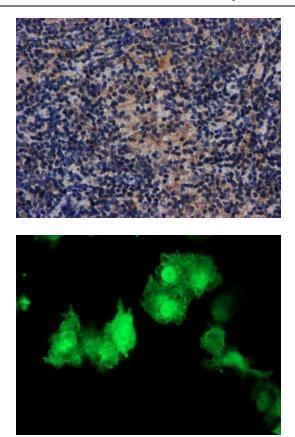
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-AKT1 monoclonal antibody.



Immunohistochemical staining of paraffinembedded Human endometrium tissue within the normal limits using anti-AKT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA504238)

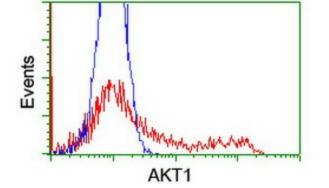
Immunohistochemical staining of paraffinembedded Human prostate tissue within the normal limits using anti-AKT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA504238)

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Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-AKT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA504238)

Anti-AKT1 mouse monoclonal antibody (TA504238) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY AKT1 ([RC220257]).



HEK293T cells transfected with either [RC220257] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-AKT1 antibody (TA504238), and then analyzed by flow cytometry.

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