

Product datasheet for **TA319561**

AKT1 Mouse Monoclonal Antibody [Clone ID: 18F3.H11]

Product data:

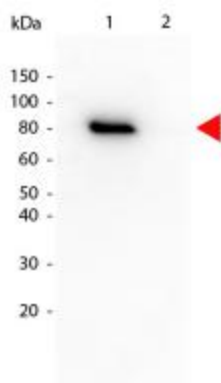
Product Type:	Primary Antibodies
Clone Name:	18F3.H11
Applications:	ELISA, IHC, WB
Recommend Dilution:	ELISA: 1:20,000, WB: 1:500 - 1:3,000, IHC: 20 ug/ml
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	Anti-AKT pT308 monoclonal antibody was produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding T308 of human AKT1 protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	0.5 mg/mL
Gene Name:	AKT serine/threonine kinase 1
Database Link:	NP_001014431 Entrez Gene 11651 Mouse Entrez Gene 24185 Rat Entrez Gene 697747 Monkey Entrez Gene 207 Human
Synonyms:	AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA
Note:	Anti-AKT phospho T308 is ideal for western blotting, ELISA, IHC and IP. Phospho AKT pT308 antibody is specific for AKT protein phosphorylated at T308. AKT is a component of the PI-3 kinase pathway and is activated by phosphorylation at Ser 473 and Thr 308. Anti-AKT pT308 monoclonal antibody is ideal for investigators involved in Cancer, Cell Signaling, Neuroscience, Signal Transduction research.
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase



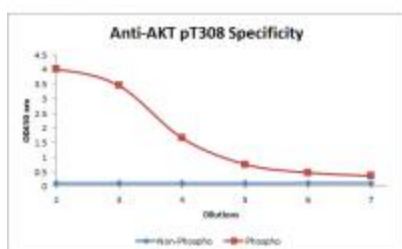
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Protein Pathways:

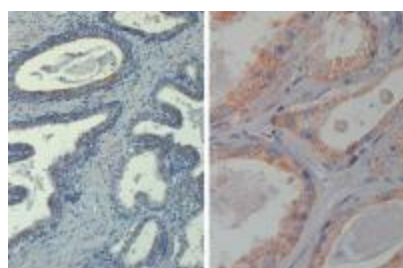
Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, 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:


Western Blot of Mouse anti-Akt phospho T308 Biotin Conjugated antibody. Lane 1: GST tagged AKT1 active recombinant protein. Lane 2: GST tagged AKT1 un-active recombinant protein. Load: 25 ng per lane. Primary antibody: Akt phospho T308 Biotin Conjugated antibody at 1:1,000 for overnight at 4°C. Secondary antibody: HRP Streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 79 kDa, 79 kDa for Akt phospho T308. Other band (s): none



ELISA of Mouse anti-Akt phospho T308 Biotin Conjugated antibody. Antigen: Unconjugated Akt phospho T308 and AKT non-phospho T308. Coating amount: 0.1 ug per well. Primary antibody: Akt phospho T308 Biotin Conjugated antibody at 5 ug/mL. Dilution series: 3-fold. Mid-point concentration: 5 ng/mL Akt phospho T308 Biotin Conjugated antibody. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:10,000. Substrate: TMB (p/n TMBE-0100)



Immunohistochemistry of Mouse Anti-AKT phospho T308 Biotin Conjugated at 20X (left) and 40X (right) Tissue: prostate Fixation: FFPE buffered formalin 10% conc Antigen retrieval: Heat, Citrate pH 6.2. Pressure Cooker, Heat, EDTA pH 9.5 Pressure Cooker Primary antibody: 20 ug/mL for 1 h at RT Secondary antibody: Streptavidin Conj. HRP 10 ug/ml Localization: nuclear and occasionally cytoplasmic Staining: antibody as precipitated red signal with a hematoxylin purple nuclear counterstain.