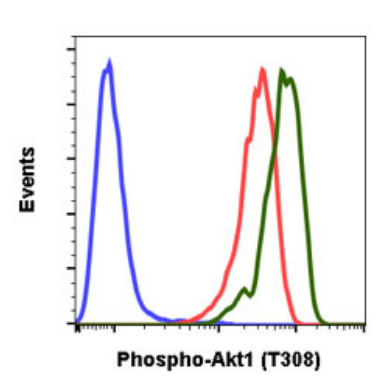
AKT1 (phospho T308) monoclonal antibody, clone G12

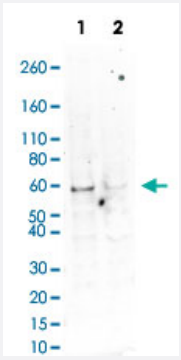
Catalog # MAB18788 Size 20 uL

Applications



Flow Cytometry

Flow cytometric analysis of K562 cells with AKT1 (phospho T308) monoclonal antibody, clone G12 (Cat # MAB18788). Secondary antibody only negative control (blue) or treated with LY294002 (red) or with IFNa + IL-4 + pervanadate (green).



Western Blot (Cell lysate)

Western Blot analysis of 293T cell lysate with AKT1 (phospho T308) monoclonal antibody, clone G12 (Cat # MAB18788). Lane 1: treated or Lane 2: untreated with 20% FBS.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human AKT1.
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding T308 of human AKT1.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein A/G purification

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Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.1% BSA and 0.02% sodium azide).
Storage Instruction	Store at -20°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Flow cytometric analysis of K562 cells with AKT1 (phospho T308) monoclonal antibody, clone G12 (Cat # MAB18788). Secondary antibody only negative control (blue) or treated with LY294002 (red) or with IFNa + IL-4 + pervanadate (green).

- Western Blot (Cell lysate)

  Western Blot analysis of 293T cell lysate with AKT1 (phospho T308) monoclonal antibody, clone G12 (Cat # MAB18788). Lane 1: treated or Lane 2: untreated with 20% FBS.

Gene Info — AKT1

Entrez GeneID	207
Gene Name	AKT1
Gene Alias	AKT, MGC99656, PKB, PKB-ALPHA, PRKBA, RAC, RAC-ALPHA
Gene Description	v-akt murine thymoma viral oncogene homolog 1
Omim ID	164730 181500
Gene Ontology	Hyperlink
Gene Summary	The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-s tarved 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 phosphatidyl inositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-ind uced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent ma nner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates c omponents of the apoptotic machinery. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq

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Other Designations	RAC-alpha serine/threonine-protein kinase|murine thymoma viral (v-akt) oncogene homolog-1|protein kinase B|rac protein kinase alpha

Pathway

- 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

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- Prostate cancer
- Renal cell carcinoma
- Small cell lung cancer
- T cell receptor signaling pathway
- Tight junction
- Toll-like receptor signaling pathway
- VEGF signaling pathway

Disease

- Adenocarcinoma
- Alzheimer disease
- Amphetamine-Related Disorders
- Atherosclerosis
- Basal Ganglia Diseases
- Bipolar Disorder
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Cognition
- Colonic Neoplasms
- Colorectal Neoplasms
- Coronary Artery Disease
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus

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- Disease Progression
- Disease Susceptibility
- Dominance
- Drug Toxicity
- Dyskinesia
- Edema
- Endometrial Neoplasms
- Endometriosis
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- HIV Infections
- Leukemia
- Liver Cirrhosis
- Lung Neoplasms
- Memory
- Metabolic Syndrome X
- Necrosis
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neuropsychological Tests
- Obesity
- Osteoporosis
- Ovarian Failure
- Ovarian Neoplasms
- Parkinson disease

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- Polycystic Ovary Syndrome
- Precursor T-Cell Lymphoblastic Leukemia-Lymphoma
- Prostatic Neoplasms
- Psychiatric Status Rating Scales
- Psychoses
- Psychotic Disorders
- Puberty
- Pulmonary Disease
- Rectal Neoplasms
- Retinal Neoplasms
- Retinoblastoma
- Schizophrenia
- Space Perception
- Thrombophilia
- Thyroid Neoplasms
- Tobacco Use Disorder
- Tuberculosis
- Urinary Bladder Neoplasms
- Verbal Learning
- Werner syndrome

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