AKT1 (Prognostic Marker for Neuroendocrine Tumors) Antibody

Mouse Monoclonal Antibody [Clone AKT1/2491]

Catalog No	Format	Size
207-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
207-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
207-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

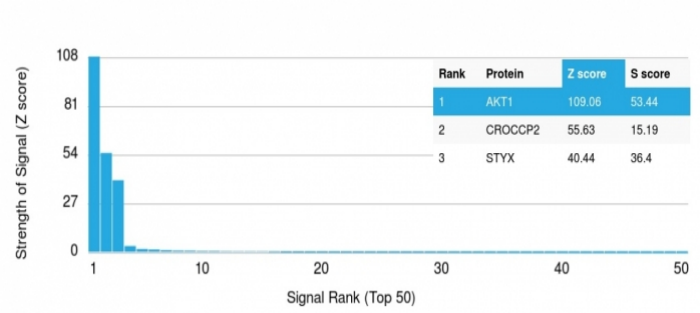
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

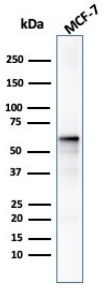
Clone	AKT1/2491
Gene Name	AKT1
Immunogen	Recombinant fragment of human AKT1 protein (around aa 85-189) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	62kDa
Cellular Localization	Cell membrane, Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	MCF-7 cells. PDGF-treated NIH/3T3 cells. HeLa or Human Brain, Human Kidney, Human Liver, Human Lung, Human Pancreas, Human Sk. Muscle or Human Spleen

**Optimal dilution for a specific application should be determined.*

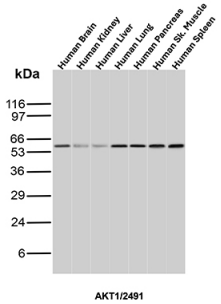
Product Images for AKT1 (Prognostic Marker for Neuroendocrine Tumors) Antibody



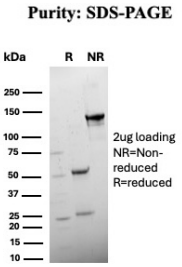
Analysis of Protein Array containing more than 19,000 full-length human proteinsusing AKT1 Mouse Monoclonal Antibody (AKT1/2491). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



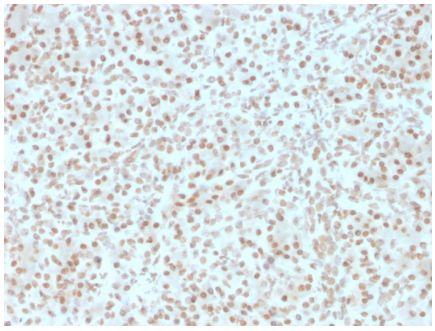
Western Blot Analysis of MCF-7 cell lysate using AKT1 Mouse Monoclonal Antibody (AKT1/2491).



Western blot analysis of Human Brain, Human Kidney, Human Liver, Human Lung, Human Pancreas, Human Sk. Muscle and Human Spleen tissue lysates using AKT1 Mouse Monoclonal Antibody (AKT1/2491).



SDS-PAGE Analysis of Purified AKT1 Mouse Monoclonal Antibody(AKT1/2491). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Pancreas stained with AKT1 Mouse Monoclonal Antibody (AKT1/2491).

Specificity & Comments

Recognizes a protein of 62kDa, which is identified as AKT1The serine/threonine kinase Akt family contains several members, including Akt1 (also designated PKB or RacPK), Akt2 (also designated PKB tyrosine residues 740 and 751, which bind the subunit of the phosphatidylinositol 3-kinase (PI 3-kinase) complex. Activation of Akt1 by insulin or insulin-growth factor-1(IGF-1) results in phosphorylation of both Thr 308 and Ser 473. Akt proteins become phosphorylated and activated in insulin/IGF-1-stimulated cells by an upstream kinase(s), and the activation of Akt1 and Akt2 is inhibited by the PI kinase inhibitor wortmannin.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Apoptosis, Autophagy, BBB VCAM-1 Signaling, Breast Cancer, Cardiovascular, Colon Cancer, Cytokine Signaling, Developmental Biology, Hypoxia, Immuno Oncology, Immunology, Infectious Disease, Lung Cancer, MAPK Signaling, Neuroinflammation, Nuclear Marker, Ovarian Cancer, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.