Recombinant AKT1 (Prognostic Marker for Neuroendocrine Tumors) Antibody

Mouse Monoclonal Antibody [Clone rAKT1/2491]

Catalog No	Format	Size
207-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
207-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
207-MSM5-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

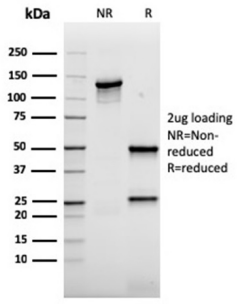
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

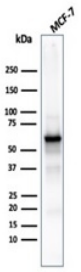
Clone	rAKT1/2491
Immunogen	Recombinant fragment (around aa85-189) of the human AKT1 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	55.69kDa
Cellular Localization	Cell membrane, Cytoplasm, Mitochondrion intermembrane space, Nucleus
Species Reactivity	Human
Positive Control	MCF-7 cells. PDGF-treated NIH/3T3 cells. HeLa. 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.*

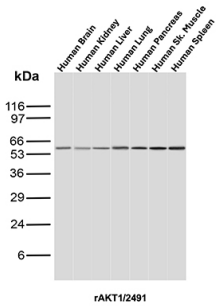
Product Images for Recombinant AKT1 (Prognostic Marker for Neuroendocrine Tumors) Antibody



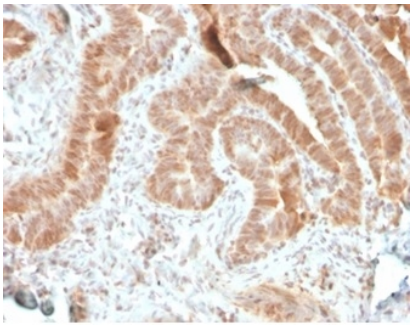
SDS-PAGE Analysis of Purified AKT1 Recombinant Mouse Monoclonal Antibody (rAKT1/2491). Confirmation of Integrity and Purity of Antibody.



Western Blot Analysis of MCF-7 cell lysate using AKT1 Recombinant Mouse Monoclonal Antibody (rAKT1/2491).



Western blot analysis of Human Brain, Human Kidney, Human Liver, Human Lung, Human Pancreas, Human Sk. Muscle and Human Spleen tissue lysates using AKT1 Recombinant Mouse Monoclonal Antibody (rAKT1/2491).



Formalin-fixed, paraffin-embedded human colon carcinoma stained with AKT1 Recombinant Mouse Monoclonal Antibody (rAKT1/2491).

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? or RacPK-?) and Akt 3 (also designated PKB? or thymoma viral proto-oncogene 3), which exhibit sequence homology with the protein kinase A and C families and are encoded by the c-Akt proto-oncogene. All members of the Akt family have a Pleckstrin homology domain. Akt1 and Akt2 are activated by PDGF stimulation. This activation is dependent on PDGFR-? 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 produced in a mammalian-based expression system. 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.

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.