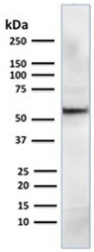
AKT1 Antibody [clone AKT1/2784] (V7744)

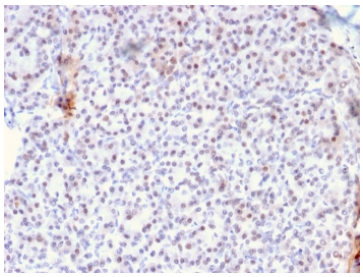
Catalog No.	Formulation	Size
V7744-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7744-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7744SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

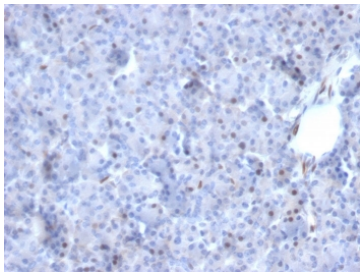
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG
Clone Name	AKT1/2784
Purity	Protein G affinity chromatography
UniProt	P31749
Localization	Nucleus, plasma membrane, cytoplasm
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This AKT1 antibody is available for research use only.



AKT1 Antibody Mouse NIH 3T3 Cell WB. Western blot testing of mouse NIH3T3 cell lysate with AKT1 antibody. Predicted molecular weight ~56 kDa.



IHC staining of FFPE human pancreas with AKT1 antibody (clone AKT1/2784). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



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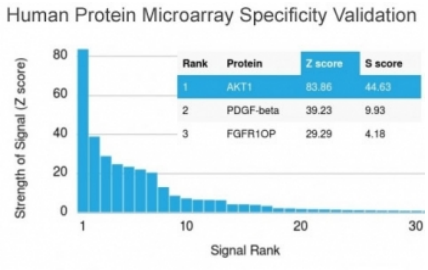
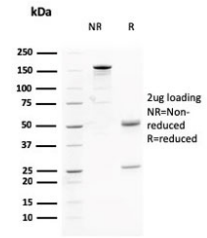


Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using AKT1 antibody (clone AKT1/2784). These results demonstrate the foremost specificity of the AKT1/2784 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free AKT1 antibody (clone AKT1/2784) as confirmation of integrity and purity.

Description

Recognizes a protein of 62kDa, which is identified as AKT1. The 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.

For a microarray-validated AKT1 antibody supporting high-specificity detection, see our AKT1 antibody (clone AKT1/2552).

Application Notes

Optimal dilution of the AKT1 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-200 from the human protein were used as the immunogen for the AKT1 antibody.

Storage

Store the AKT1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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