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## 36-2242: Anti-AKT1 (Prognostic Marker for Neuroendocrine Tumors) Monoclonal Antibody(Clone: AKT1/2552)

Clonality: Monoclonal
Clone Name: AKT1/2552
Application: WB,IHC
Reactivity: Human
Gene: AKT1
Gene ID: 207
Uniprot ID: P31749

AKT1; Oncogene AKT1; PKB; PKB-ALPHA; PRKBA; Protein Kinase B Alpha; Proto-oncogene c-

Alternative Name: Akt; RAC Alpha; RAC Serine/Threonine Protein Kinase; RAC-alpha serine/threonine-protein

kinase; RAC-PK-alpha

**Isotype:** Mouse IgG2b, kappa

Immunogen Information: Recombinant fragment of human AKT1 protein (around aa 85-189) (exact sequence is proprietary)

## **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.

## **Product Info**

**Amount :** 20 μg / 100 μg

Content: 200 µg/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 condition:

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.

## **Application Note**

Western Blot (1-2ug/ml);Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 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&degC followed by cooling at RT for 20 minutes);

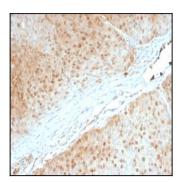


Fig. 1: Formalin-fixed, paraffin-embedded human Pancreas stained with AKT1 Mouse Monoclonal Antibody (AKT1/2552).



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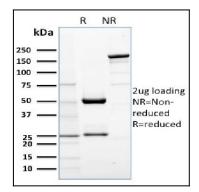


Fig. 2: SDS-PAGE Analysis Purified AKT1 Mouse Monoclonal Antibody (AKT1/2552). Confirmation of Integrity and Purity of Antibody.

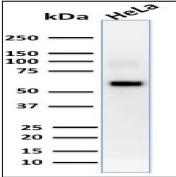


Fig. 3: Western Blot Analysis of human HeLa cell lysate using AKT1 Mouse Monoclonal Antibody (AKT1/2552).

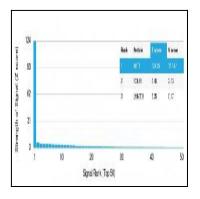


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using AKT1 Mouse Monoclonal Antibody (AKT1/2552). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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 MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.