

## Rabbit anti-Human AKT3 Polyclonal Antibody | anti-AKT3 antibody

Anti-AKT3 Antibody, Rabbit Polyclonal

|                               |                       |                            |                                             |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA258887</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------|

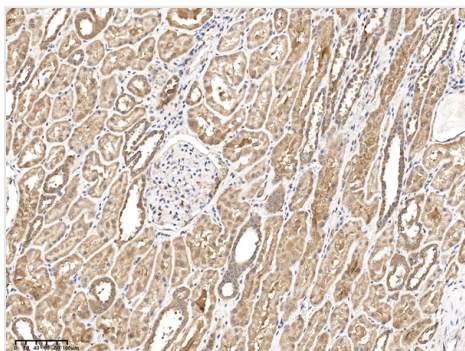
### PRODUCT SYNONYMS

AKT3; Polyclonal Antibody; Anti-AKT3 Antibody; Rabbit Polyclonal; v-akt murine thymoma viral oncogene homolog 3; Anti-MPPH Antibody; Anti-MPPH2 Antibody; Anti-PKB-GAMMA Antibody; Anti-PKBG Antibody; Anti-PRKBG Antibody; Anti-RAC-gamma Antibody; Anti-RAC-PK-gamma Antibody; Anti-STK-2 Antibody; anti-AKT3 antibody

### PRODUCT SPECIFICATIONS

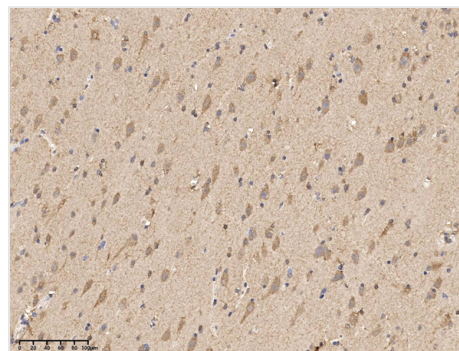
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|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                    | Human AKT3                                                                                                                                                                                                                                                            |
| Purity/Purification                            | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                    | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-AKT3 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                            |
| Immunogen                                      | A synthetic peptide corresponding to the center region of the Human AKT3                                                                                                                                                                                              |
| Preparation                                    | Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human AKT3, and purified by antigen affinity chromatography.                                                                                                         |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |

### IMAGES



**IHC (Immunohistochemistry)**

Immunochemical staining of human AKT3 in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



**IHC (Immunohistochemistry)**

Immunochemical staining of human AKT3 in human brain with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

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|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-AKT3 antibody | v-akt murine thymoma viral oncogene homolog 3 (AKT3), also known as PKB-GAMMA, with AKT1/PKBalpha, AKT2/PKBbeta, are the members of Akt kinase family, share extensive structural similarity and perform common as well as unique functions within cells. The Akt signaling cascade initiates at the cell surface when growth factors or other extracellular stimuli activate phosphoinositide 3-kinase (PI3K). AKT3 was discovered to be the predominant isoform activated in sporadic melanomas. Levels of activity increased during melanoma progression with metastatic melanomas having the highest activity. Although mechanisms of AKT3 activation remain to be fully characterized, overexpression of AKT3 and decreased PTEN activity play important roles in this process. Targeted reduction of AKT3 activity decreased survival of melanoma tumor cells leading to inhibition of tumor development, which may be therapeutically effective for shrinking tumors in melanoma patients. AKT2 and AKT3 play an important role in the viability of human malignant glioma cells. Targeting AKT2 and AKT3 may hold promise for the treatment of patients with gliomas. |
| References                                         | Mure H, et al. (2010) Akt2 and Akt3 play a pivotal role in malignant gliomas. Neuro Oncol. 12(3): 221-32.<br>Koseoglu S, et al. (2007) AKT1, AKT2 and AKT3-dependent cell survival is cell line-specific and knockdown of all three isoforms selectively induces apoptosis in 20 human tumor cell lines. Cancer Biol Ther. 6(5): 755-62.<br>Cristiano BE, et al. (2006) A specific role for AKT3 in the genesis of ovarian cancer through modulation of G(2)-M phase transition. Cancer Res. 66(24): 11718-25.<br>Robertson GP. (2005) Functional and therapeutic significance of Akt deregulation in malignant melanoma. Cancer Metastasis Rev. 24(2): 273-85.<br>Altomare DA, et al. (2005) Perturbations of the AKT signaling pathway in human cancer. Oncogene. 24: 7455-64.<br>Stahl JM, et al. (2004) Deregulated Akt3 activity promotes development of malignant melanoma. Cancer Res. 64: 7002-10.                                                                                                                                                                                                                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/akt3-antibody-immunohistochemistry-elisa/258887>