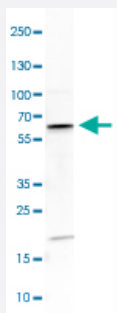


AKT3 polyclonal antibody

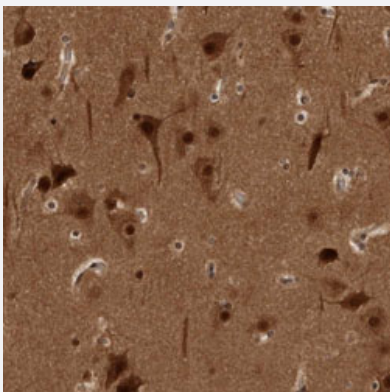
Catalog # PAB30870 Size 100 uL

Applications



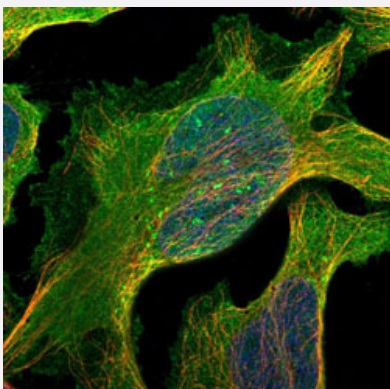
Western Blot (Cell lysate)

Western Blot analysis of SH-SY5Y with AKT3 polyclonal antibody (Cat # PAB30870).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebral cortex with AKT3 polyclonal antibody (Cat # PAB30870) shows strong nuclear and cytoplasmic positivity in neuronal cells.



Immunofluorescence

Immunofluorescent staining of U-2 OS with AKT3 polyclonal antibody (Cat # PAB30870) (Green) shows positivity in plasma membrane and cytoplasm.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human AKT3.
Immunogen	Recombinant protein corresponding to human AKT3.
Sequence	EEREEWTEAIQAVADRLQRQEEERMNCSPSTSQIDNIGEEEMDASTTHHKRKTMNDFDYLKLL
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:1000) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of SH-SY5Y with AKT3 polyclonal antibody (Cat # PAB30870).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebral cortex with AKT3 polyclonal antibody (Cat # PAB30870) shows strong nuclear and cytoplasmic positivity in neuronal cells.

- Immunofluorescence

Immunofluorescent staining of U-2 OS with AKT3 polyclonal antibody (Cat # PAB30870) (Green) shows positivity in plasma membrane and cytoplasm.

Gene Info — AKT3

Entrez GeneID

[10000](#)

Protein Accession#	Q9Y243
Gene Name	AKT3
Gene Alias	DKFZp434N0250, PKB-GAMMA, PKBG, PRKBG, RAC-PK-gamma, RAC-gamma, STK-2
Gene Description	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
Omim ID	611223
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described. [provided by RefSeq]
Other Designations	OTTHUMP00000037911 OTTHUMP00000037912 RAC-gamma serine/threonine protein kinase protein kinase B gamma serine threonine protein kinase, Akt-3 v-akt murine thymoma viral oncogene homolog 3

Publication Reference

- [Investigation of molecular alterations of AKT-3 in triple-negative breast cancer.](#)

O'Hurley G, Daly E, O'Grady A, Cummins R, Quinn C, Flanagan L, Pierce A, Fan Y, Lynn MA, Rafferty M, Fitzgerald D, Pontén F, Duffy MJ, Jirstrom K, Kay EW, Gallagher WM.

Histopathology 2014 Apr; 64(5):660.

- [Immunofluorescence and fluorescent-protein tagging show high correlation for protein localization in mammalian cells.](#)

Charlotte Stadler, Elton Rexhepaj, Vasanth R Singan, Robert F Murphy, Rainer Pepperkok, Mathias Uhlén, Jeremy C Simpson, Emma Lundberg.

Nature Methods 2013 Apr; 10(4):315.

- [Abrogation of BRAFV600E-induced senescence by PI3K pathway activation contributes to melanomagenesis.](#)

Vredeveld LC, Possik PA, Smit MA, Meissl K, Michaloglou C, Horlings HM, Ajouaou A, Kortman PC, Dankort D, McMahon M, Mooi WJ, Peeper DS.

Genes & Development 2012 May; 26(10):1055.

Application: IHC-P, WB-Tr, Human, Melanocytes, Melanoma

Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Glioma](#)
- [Insulin signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [mTOR signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Renal cell carcinoma](#)

- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Tight junction](#)
- [Toll-like receptor signaling pathway](#)
- [VEGF signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Multiple Sclerosis](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)