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Product datasheet for TA500001S

AKT3 Mouse Monoclonal Antibody [Clone ID: OTI9B2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI9B2
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:50, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human AKT3 (NP_005456) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.25 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55.6 kDa
Gene Name:	AKT serine/threonine kinase 3
Database Link:	NP_005456 Entrez Gene 23797 MouseEntrez Gene 29414 RatEntrez Gene 10000 Human Q9Y243
Background:	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.

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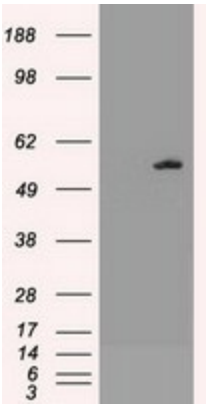
Synonyms: MPPH; MPPH2; PKB-GAMMA; PKBG; PRKBG; RAC-gamma; RAC-PK-gamma; STK-2

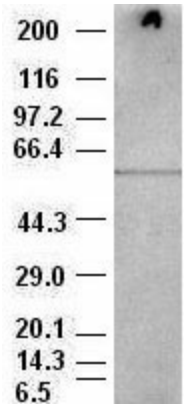
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

Protein Pathways: 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, Progesterone-mediated oocyte maturation, Prostate cancer, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Tight junction, Toll-like receptor signaling pathway, VEGF signaling pathway

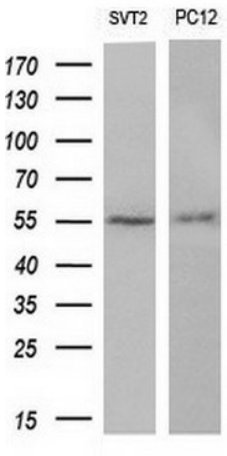
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AKT3 (Cat# [RC221051], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AKT3 (Cat# [TA500001]).



AKT3 antibody (9B2) at 1:500 dilution + BALB/C 3T3 cell lysate



Western blot analysis of extracts (10ug) from 2 different cell lines by using anti-AKT3 monoclonal antibody at 1:200 dilution.

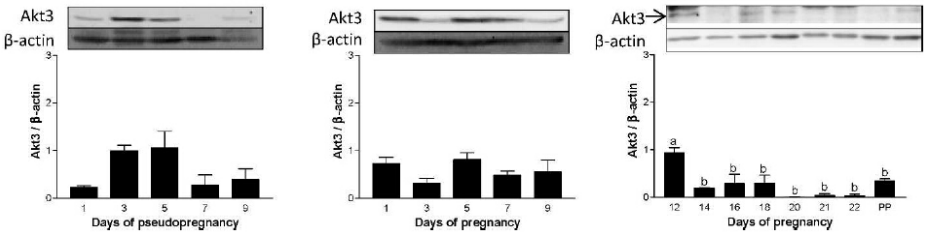
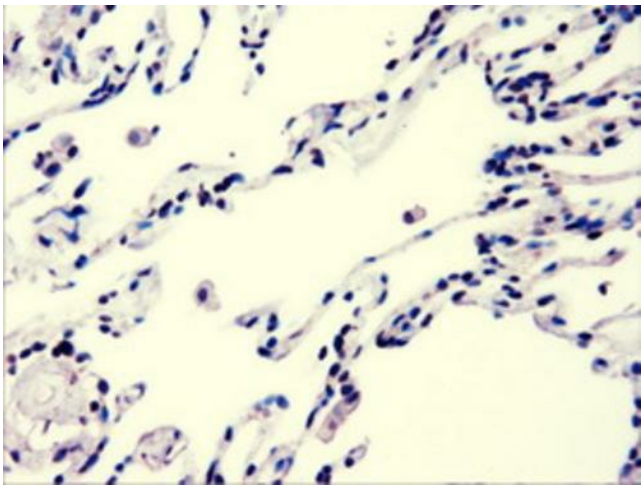
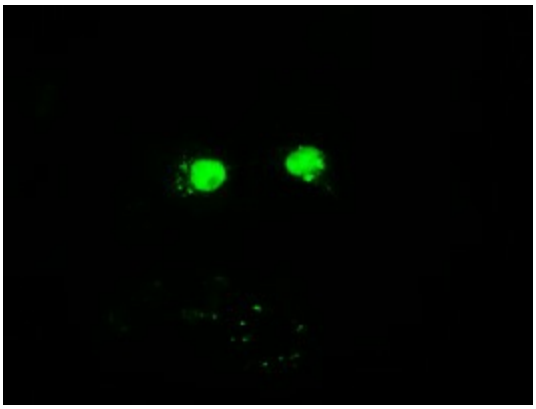


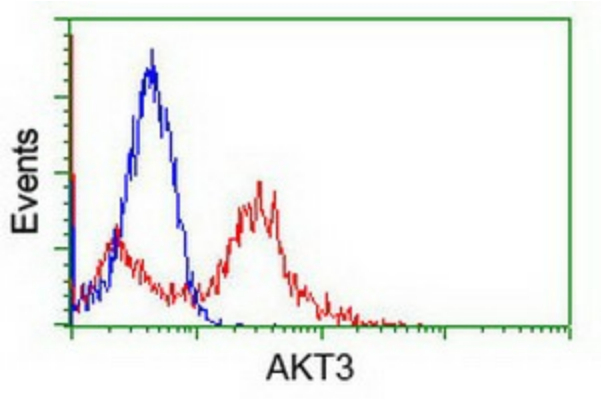
Figure from citation: Western Blot of Akt3 protein level by using anti-Akt3 antibody in rat endometrium during pregnancy and pseudopregnancy. View Citation



Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-AKT3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-AKT3 mouse monoclonal antibody ([TA500001]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY AKT3 ([RC221051]).



HEK293T cells transfected with either overexpress plasmid ([RC221051], Red) or empty vector control plasmid (Blue) were immunostained by anti-AKT3 antibody ([TA500001]), and then analyzed by flow cytometry.