

Product datasheet for **CF500783**

AKT2 Mouse Monoclonal Antibody [Clone ID: OTI8D9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI8D9
Applications:	FC, IP, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100, IP 2ug/500ul
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human AKT2 (NP_001617) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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 2
Database Link:	NP_001617 Entrez Gene 11652 Mouse Entrez Gene 25233 Rat Entrez Gene 208 Human P31751



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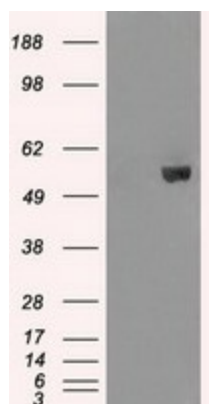
Background: This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phosphorylating several known proteins. [provided by RefSeq]

Synonyms: HIHGHH; PKBB; PKBBETA; PRKBB; RAC-BETA

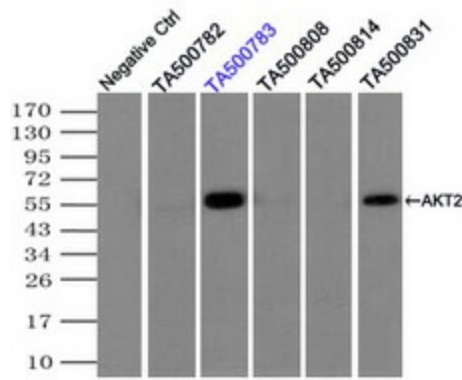
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

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

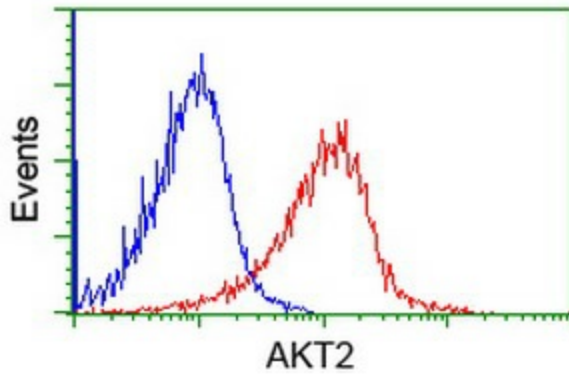
Product images:



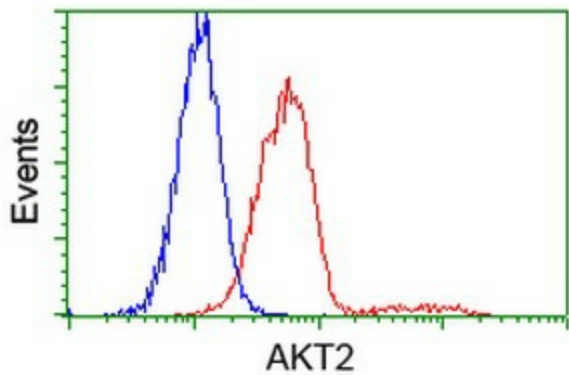
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AKT2 ([RC217733], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AKT2. Positive lysates [LY419836] (100ug) and [LC419836] (20ug) can be purchased separately from OriGene.



Immunoprecipitation (IP) of AKT2 by using TrueMab monoclonal anti-AKT2 antibodies (Negative control: IP without adding anti-AKT2 antibody.). For each experiment, 500ul of DDK tagged AKT2 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-AKT2 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.



Flow cytometric Analysis of Jurkat cells, using anti-AKT2 antibody ([TA500783]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of HeLa cells, using anti-AKT2 antibody ([TA500783]), (Red), compared to a nonspecific negative control antibody, (Blue).