

For Research Use Only

AKT Polyclonal antibody

Catalog Number: 27809-1-AP



Basic Information

Catalog Number: 27809-1-AP	GenBank Accession Number: BC000479	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 ug/ml by Nanodrop;	GeneID (NCBI): 207	Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:50-1:500
Source: Rabbit	UNIPROT ID: P31749	
Isotype: IgG	Full Name: v-akt murine thymoma viral oncogene homolog 1	
Immunogen Catalog Number: AG26642	Calculated MW: 56 kDa	
	Observed MW: 56-62 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : A549 cells, NIH/3T3 cells, HEK-293 cells, HeLa cells, Jurkat cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse testis tissue, human colon cancer tissue

Background Information

AKT (also known as protein kinase B, PKB) is a serine threonine protein kinase consisting of three isoforms, AKT1, AKT2, and AKT3, which are encoded by three distinct genes, PKBa, PKB β , and PKB γ , respectively. Among them, AKT1 is ubiquitously expressed and primarily regulates cell survival, AKT2 controls glucose metabolism, while AKT3 is highly expressed in the brain and testes. These isoforms are central nodes in the PI3K-AKT-mTOR signaling pathway, which is a critical regulator of cell survival, growth, proliferation, and metabolism (PMID: 25811375, PMID: 31173856, PMID: 36180910). This antibody detects total AKT1, AKT2, and AKT3 isoforms, typically showing a molecular weight of approximately 56-62 kDa in Western blot analysis.

Storage

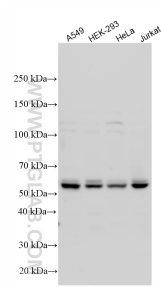
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

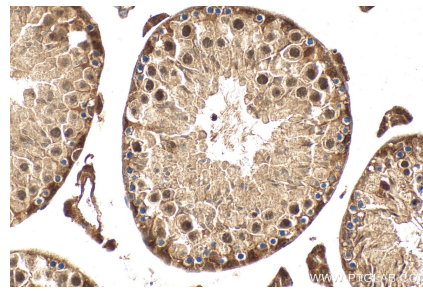
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27809-1-AP (AKT antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 27809-1-AP (AKT antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).