



Phospho-AKT2 (Ser474) Polyclonal Antibody

Catalog Number: PA5-36819

Product Data Sheet

Details		Species Reactivity	
Size	100 µl	Tested species reactivity	Human, Mouse, Rat
Host / Isotype	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal	Western Blot (WB)	1:500-1:1000
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:200
Immunogen	Synthetic phosphopeptide derived from human AKT2 around the phosphorylation site of Serine 474	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	1mg/ml		
Purification	Antigen affinity chromatography		
Storage Buffer	PBS, pH 7.2		
Contains	0.05% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product Specific Information

This antibody detects endogenous protein at a molecular weight of 60 kDa. It does not cross-react with AKT1 and AKT3 protein when phosphorylated at the corresponding residues.

Purity is >95% by SDS-PAGE.

Background/Target Information

AKT, also known as protein kinase B (PKB), is a 57 kDa serine/threonine protein kinase. There are three mammalian isoforms of Akt: AKT1 (PKB alpha), AKT2 (PKB beta) and AKT3 (PKB gamma) with AKT2 and AKT3 being approximately 82% identical with the AKT1 isoform. Each isoform has a pleckstrin homology (PH) domain, a kinase domain and a carboxy terminal regulatory domain. AKT was originally cloned from the retrovirus AKT8, and is a key regulator of many signal transduction pathways. Its tight control over cell proliferation and cell viability are manifold; overexpression or inappropriate activation of AKT has been seen in many types of cancer.

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