

Pan-AKT antibody

Product Information

Catalog No.:	FNab10483
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

Human AKT serine-threonine protein kinase family includes three members AKT1, AKT2, AKT3, which are also often referred to as protein kinase B alpha, beta, and gamma. These highly similar AKT proteins all have an N-terminal pleckstrin homology domain, a serine/threonine-specific kinase domain and a C-terminal regulatory domain. These proteins are phosphorylated by phosphoinositide 3-kinase (PI3K). AKT/PI3K forms a key component of many signalling pathways that involve the binding of membrane-bound ligands such as receptor tyrosine kinases, G-protein coupled receptors, and integrin-linked kinase. These AKT proteins therefore regulate a wide variety of cellular functions including cell proliferation, survival, metabolism, and angiogenesis in both normal and malignant cells. AKT proteins are recruited to the cell membrane by phosphatidylinositol 3,4,5-trisphosphate (PIP3) after phosphorylation of phosphatidylinositol 4,5-bisphosphate (PIP2) by PI3K. Subsequent phosphorylation of both threonine residue 308 and serine residue 473 is required for full activation of the AKT1 protein encoded by this gene.

Immunogen information

Immunogen:	human AKT1/AKT2/AKT3
Synonyms:	RAC-alpha serine/threonine-protein kinase Protein kinase B (PKB) Protein kinase B alpha (PKB alpha) Proto-oncogene c-Akt RAC-PK-alpha AKT1 PKB RAC
Observed MW:	60 kDa
Uniprot ID :	P31749/P31751/Q9Y243

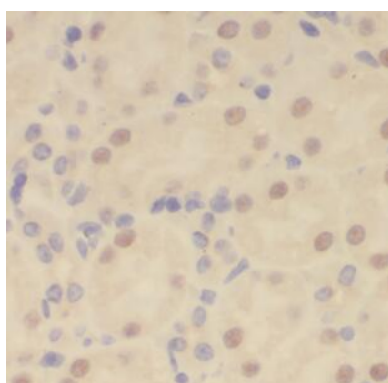
Application

Reactivity: Human, Mouse, Rat

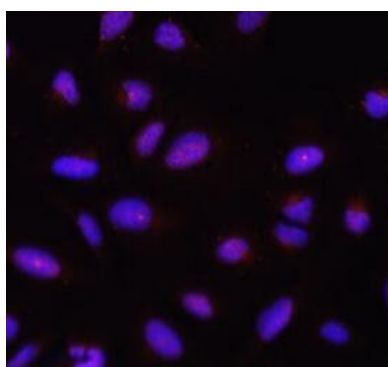
Tested Application: ELISA, WB, IHC, IF, IP

Recommended dilution: WB: 1:200-1:800; IHC: 1:20-1:100; IF: 1:20-1:100; IP: 1:20-1:100

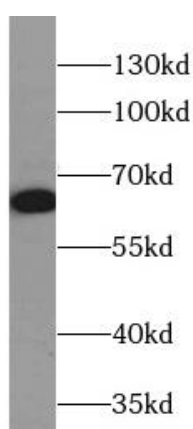
Image:



Immunohistochemistry of paraffin-embedded rat kidney tissue slide using FNab10483(Pan-AKT Antibody) at dilution of 1:50



Immunofluorescent analysis of U2OS cells using FNab10483(Pan-AKT Antibody) at dilution of 1:50.



A549 cells were subjected to SDS PAGE followed by western blot with FNab10483(Pan-AKT Antibody) at dilution of 1:500