Anti-Phospho-AKT (Ser473) Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P108944

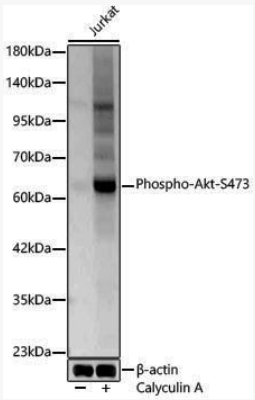
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:2,000; IHC-P 1:50~1:200
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphorylated peptide around S473 of human AKT1/AKT2/AKT3AKT1 (NP_005154.2).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-AKT (Ser473) Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

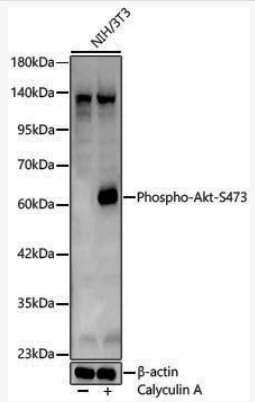
Protein Information

Synonyms	AKT1/AKT2/AKT3; Phospho-Akt-S473.
Calculated MW	Calculated MW: 48 kDa/55 kDa/51 kDa/54 kDa; Observed MW: 60 kDa
Uniprot ID	P31749,P31751,Q9Y243
Gene ID	207, 208, 10000
Background	The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2011]

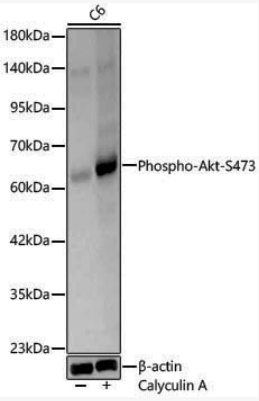
Validation Images



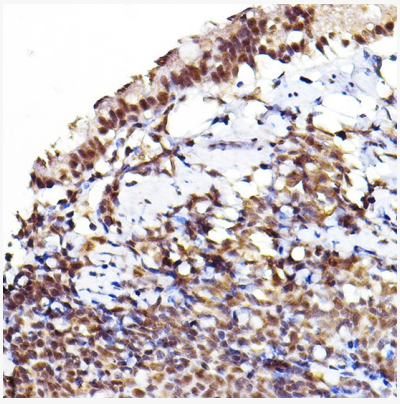
Western blot analysis of lysates from Jurkat cells using Phospho-Akt-S473 Rabbit pAb (P108944) at 1:500 dilution. Jurkat cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit (SQ201).
Exposure time: 10s.



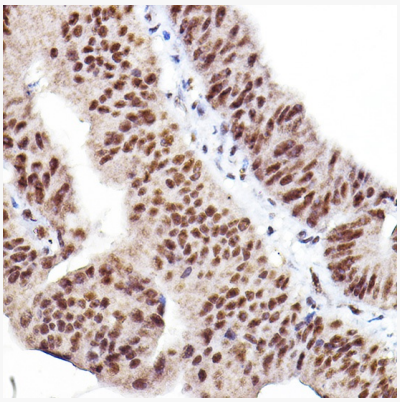
Western blot analysis of lysates from NIH/3T3 cells using Phospho-Akt-S473 Rabbit pAb (P108944) at 1:500 dilution. NIH/3T3 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit (SQ201).
Exposure time: 45s.



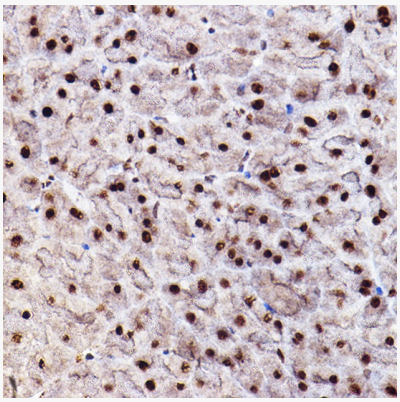
Western blot analysis of lysates from C6 cells using Phospho-Akt-S473 Rabbit pAb (P108944) at 1:500 dilution. C6 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit (SQ201).
Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded Rat lung using Phospho-AKT1-S473+AKT2-S474+AKT3-S472 Rabbit pAb (P108944) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using Phospho-AKT1-S473+AKT2-S474+AKT3-S472 Rabbit pAb (P108944) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse pancreas using Phospho-AKT1-S473+AKT2-S474+AKT3-S472 Rabbit pAb (P108944) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.