

# Product Datasheet

## AKT1 [p Thr308] Antibody (18F3.H11) - BSA Free NBP1-69924

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-69924**

AKT1 [p Thr308] Antibody (18F3.H11) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	18F3.H11
Preservative	0.01% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	<p>This antibody was purified from concentrated tissue culture supernate by Protein A chromatography</p> <p>Store this antibody at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Mouse
Gene ID	207
Gene Symbol	AKT1
Species	Human, Mouse
Reactivity Notes	A BLAST analysis was used to suggest cross-reactivity with AKT1 pT308 from most vertebrate species sources based on 100% homology with the immunizing sequence. Cross-reactivity with AKT1 from other sources has not been determined. Cross-reactivity with AKT2 and AKT3 will likely occur.
Specificity/Sensitivity	This antibody is specific for human and mouse AKT protein phosphorylated at T308. A BLAST analysis was used to suggest cross-reactivity with AKT pT308 from most vertebrate species sources based on 100% homology with the immunizing sequence. Cross-reactivity with AKT from other sources has not been determined. Cross-reactivity with AKT2 and AKT3 will likely occur.
Immunogen	AKT1 [p Thr308] Antibody (18F3.H11) was produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding T308 of human AKT11 protein. (Uniprot: P31749)
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:3000, Flow Cytometry 1:1:10 - 1:1000, ELISA 1:20000, Immunohistochemistry 20 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 20 ug/ml

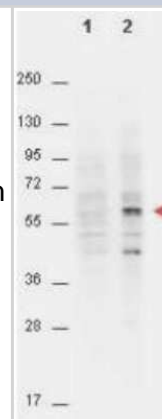


**Application Notes**

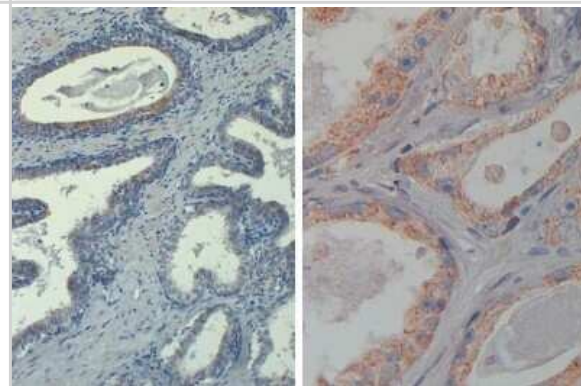
This product is tested for ELISA, immunohistochemistry, immunoprecipitation and western blotting. Expect a band approximately 56 kDa in size corresponding to phosphorylated AKT protein by western blotting in the appropriate cell lysate or extract. This phospho-specific monoclonal antibody reacts with human and mouse AKT pT308 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide. Specific conditions for reactivity should be optimized by the end user. Use formalin-fixed paraffin-embedded sections for immunohistochemistry. No pre-treatment of sample is required.

**Images**

Western Blot: AKT1 [p Thr308] Antibody (18F3.H11) [NBP1-69924] - Lane 1: non-phosphorylated AKT in untreated cells. Lane 2: phosphorylated AKT on PDGF stimulated NIH/3T3 cell lysates. Load: 15 ug per lane. Primary antibody: AKT phospho Thr308 antibody at a 1:4000 dilution in TBS with 3% BSA, for 3 h at 4 C. Secondary antibody: peroxidase conjugated Gt-a-Mouse IgG (Fc) at a 1:40,000 dilution for 1 h at 4 C. Block: 3% BSA in TBS for 30 min at RT. Predicted/Observed size: (indicated by arrowhead at 56 kDa). Other band(s): unspecific.



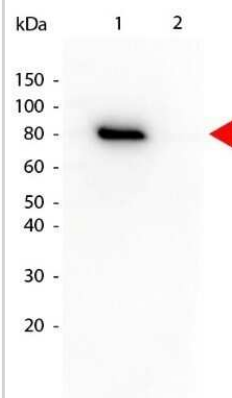
Immunocytochemistry/Immunofluorescence: AKT1 [p Thr308] Antibody (18F3.H11) [NBP1-69924] - IHC-P analysis of FFPE human prostate tissue using AKT1 phospho Thr308 antibody at 20 ug/mL. Left panel: 20X magnification. Right panel: 40X magnification. Heat antigen retrieval in citrate buffer pH 6.2. Secondary antibody: streptavidin-HRP at 10 ug/mL. Antibody as precipitated red signal with hematoxylin purple nuclear counterstain. Image using the Biotin format of this antibody.



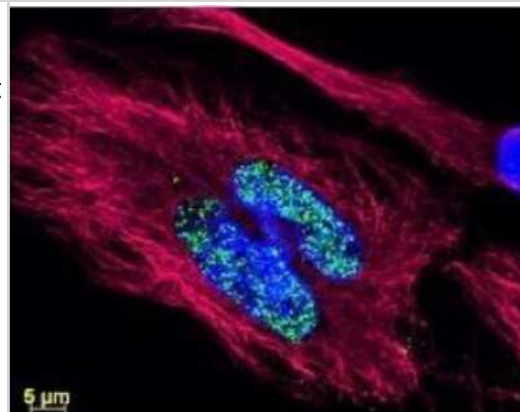
Immunohistochemistry-Paraffin: AKT1 [p Thr308] Antibody (18F3.H11) [NBP1-69924] - IHC analysis. Detection of phosphorylated AKT phospho Thr308 in human FFPE brain cerebellum tissue (40X). AKT1 phospho Thr308 antibody was used at 20 ug/mL. The image shows strong staining of Purkinje neurons. Red: AKT1 pT308. Purple: Hematoxylin nuclear counterstain.



Western Blot: AKT1 [p Thr308] Antibody (18F3.H11) [NBP1-69924] - WB analysis using the Biotin conjugate of AKT1 pT308 antibody. Detection of Lane 1: GST tagged AKT1 active recombinant protein. Lane 2: GST tagged AKT1 inactive recombinant protein. Load: 25 ng per lane. AKT pT308 Biotin conjugated antibody at 1:1000 overnight at 4C. Secondary antibody: HRP Streptavidin.



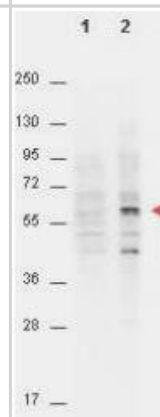
Immunocytochemistry/Immunofluorescence: AKT1 [p Thr308] Antibody (18F3.H11) [NBP1-69924] - ICC/IF analysis using the DyLight 488 conjugate of AKT1 pT308, NBP1-69924. Histone detection using DyLight 488 conjugate (green). Anti-Tubulin was detected using DyLight 549 conjugate (red). Nuclei were counter-stained using DAPI (blue).



ELISA: AKT1 [p Thr308] Antibody (18F3.H11) [NBP1-69924] - ELISA of AKT1 phospho Thr308 Biotin conjugated antibody. Antigen: Unconjugated AKT1 phospho Thr308 and AKT1 non-phospho Thr308. Coating amount: 0.1 ug per well. Primary antibody: AKT1 phospho Thr308 Biotin conjugated antibody at 5 ug/mL. Dilution series: 3-fold. Mid-point concentration: 5 ng/mL AKT1 phospho Thr308 Biotin conjugated antibody. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:10,000. Substrate: TMB



Western Blot of Mouse anti-AKT pT308 antibody. Lane 1: non-phosphorylated AKT in untreated NIH/3T3 cells





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### **Products Related to NBP1-69924**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-52121-0.05mg	Recombinant Human AKT1 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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