

Product Datasheet

AKT1 [p Thr308] Antibody (18F3.H11) [Biotin] NBP2-21679

Unit Size: 0.05 mg

Store lyophilized antibody at 4C in the dark. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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NBP2-21679

AKT1 [p Thr308] Antibody (18F3.H11) [Biotin]

Product Information	
Unit Size	0.05 mg
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C in the dark. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	18F3.H11
Preservative	0.01% Sodium Azide
Reconstitution Instructions	Reconstitute with 50 ul deionized water (or equivalent)
Isotype	IgG1 Kappa
Conjugate	Biotin
Purity	Protein A purified
Buffer	Lyophilized from 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Product Description	
Description	<p>Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. 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> <p>This antibody was purified from concentrated tissue culture supernate by Protein A chromatography</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, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500 - 1:3000, ELISA 1:20000, Immunohistochemistry 20 ug/mL, Immunohistochemistry-Paraffin 20 ug/mL



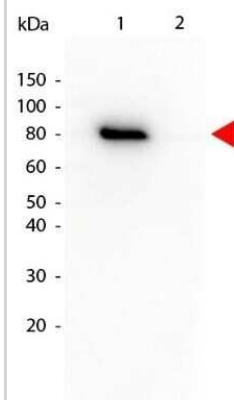
Application Notes

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.

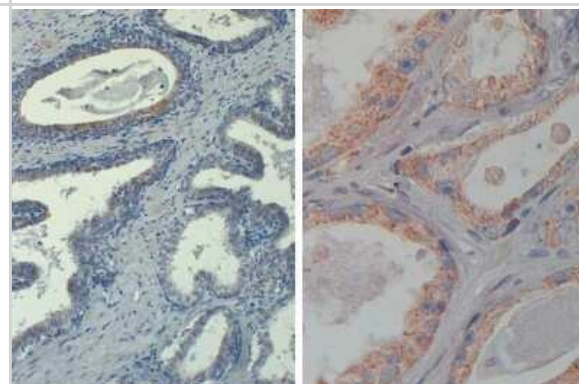


Images

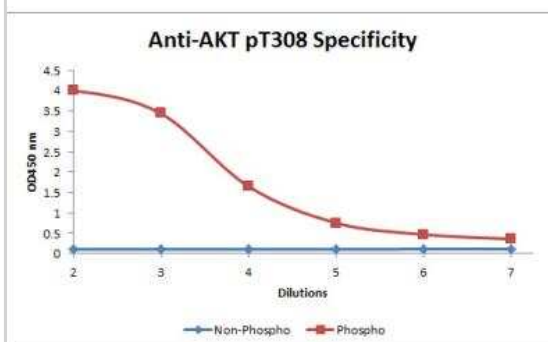
Western Blot: AKT1 [p Thr308] Antibody (18F3.H11) [Biotin] [NBP2-21679] - Lane 1: GST-tagged AKT1 active recombinant protein. Lane 2: GST-tagged AKT1 inactive recombinant protein. Load: 25 ng per lane. AKT1 phospho Thr308 Biotin conjugated antibody at 1:1000 overnight at 4C. Secondary antibody: HRP Streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block for 30 min at RT. Predicted/Observed size: 79 kDa, 79 kDa for AKT phospho Thr308.



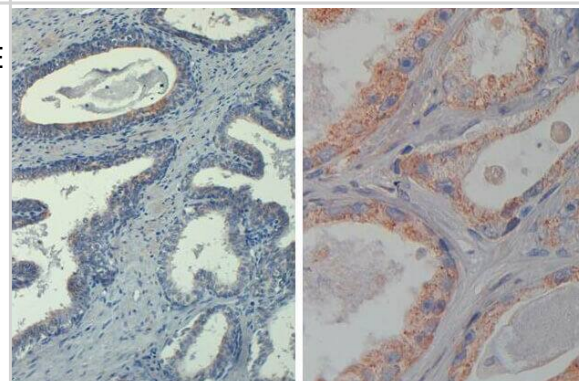
Immunohistochemistry: AKT1 [p Thr308] Antibody (18F3.H11) [Biotin] [NBP2-21679] - IHC-P analysis of FFPE human prostate tissue using AKT1 phospho Thr308 antibody at 20 ug/mL. Left panel: 20X magnification. Right panel: 40X magnification. Heat antigen retrieval in citrate buffer pH 6.2. Secondary antibody: streptavidin-HRP at 10 ug/mL. Antibody as precipitated red signal with hematoxylin purple nuclear counterstain.



ELISA: AKT1 [p Thr308] Antibody (18F3.H11) [Biotin] [NBP2-21679] - 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



Immunohistochemistry of Mouse Anti-AKT phospho T308 Biotin Conjugated. Tissue: prostate at 20X (left) and 40X (right). Fixation: FFPE buffered formalin 10% conc. Antigen retrieval: Heat, Citrate pH 6.2. Pressure Cooker, Heat, EDTA pH 9.5 Pressure Cooker. Primary antibody: AKT pT308 biotin at 20 ug/mL for 1 h at RT. Secondary antibody: Streptavidin Conj. HRP at 10 ug/ml. Localization: nuclear and occasionally cytoplasmic. Staining: antibody as precipitated red signal with a hematoxylin purple nuclear counterstain.





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Products Related to NBP2-21679

NBP2-29370	Streptavidin Native Protein
IC002B	Mouse IgG1 Isotype Control (11711) [Biotin]
NBP2-52121-0.05mg	Recombinant Human AKT1 His Protein
210-TA-005	TNF-alpha [Unconjugated]

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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