# Product Datasheet

## AKT1 [p Ser473] Antibody (17F6.B11) [Biotin]
## NBP2-21678

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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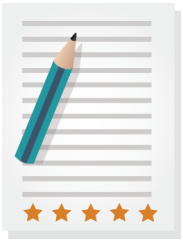

# NBP2-21678

AKT1 [p Ser473] Antibody (17F6.B11) [Biotin]

## Product Information

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|---|---|
| **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** | 17F6.B11 |
| **Preservative** | 0.01% Sodium Azide |
| **Reconstitution Instructions** | Reconstitute with 100 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

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| **Description** | 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.<br><br>This Mouse Monoclonal Antibody Biotin Conjugated was purified from concentrated tissue culture supernate by Protein A chromatography |
| **Host** | Mouse |
| **Gene ID** | 207 |
| **Gene Symbol** | AKT1 |
| **Species** | Human, Mouse, Rat, Monkey |
| **Reactivity Notes** | A BLAST analysis was used to suggest cross-reactivity with AKT1 pS473 from human, mouse, rat and chimpanzee 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 has not been determined. |
| **Specificity/Sensitivity** | This phospho specific monoclonal antibody is specific for phosphorylated human and mouse AKT protein at S473. A BLAST analysis was used to suggest cross-reactivity with AKT pS473 from human, mouse, rat and chimpanzee 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 has not been determined. |
| **Immunogen** | AKT1 [p Ser473] Antibody (17F6.B11) was produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding S473 of human AKT11 protein, followed by hybridoma development. (Uniprot: P31749) |

## Product Application Details

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| **Applications** | Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin |

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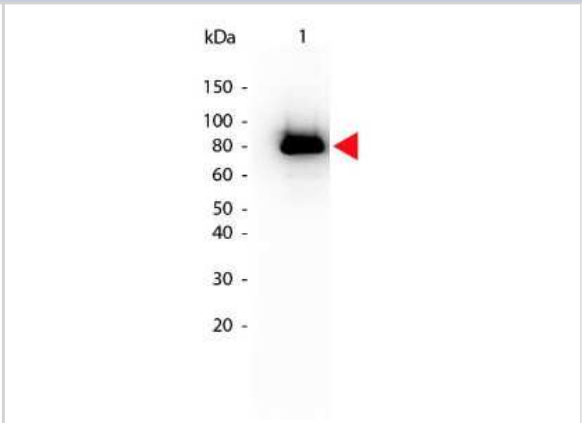
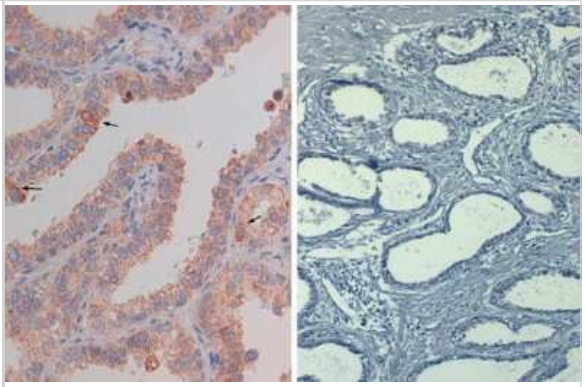
| **Recommended Dilutions** | Western Blot 1:500-1:3000, Flow Cytometry 1:10-1:1000, ELISA 1:20000, Immunohistochemistry 20 ug/mL, Immunocytochemistry/ Immunofluorescence 1:500-1:3000, Immunohistochemistry-Paraffin 20 ug/mL |
| **Application Notes** | This product is tested for ELISA, immunohistochemistry, 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 pS473 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. For immunohistochemistry use formalin-fixed paraffin-embedded sections. No pre-treatment of sample is required. |

## Images

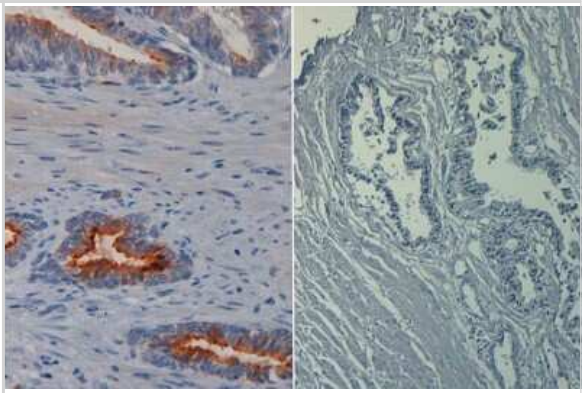
Western Blot: AKT1 [p Ser473] Antibody (17F6.B11) [Biotin] [NBP2-21678] - Western Blot of AKT1 [p Ser473] antibody (17F6.B11) [Biotin]. Lane 1: GST tagged AKT1 active recombinant protein. Lane 2: none. Load: 25 ng per lane. Primary antibody: AKT1 phospho S473 Biotin Conjugated antibody at 1:1,000 for 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 AKT1 phospho S473. Other band(s): none




Immunohistochemistry: AKT1 [p Ser473] Antibody (17F6.B11) [Biotin] [NBP2-21678] - Immunohistochemistry of AKT11 [p Ser473] antibody (17F6.B11) [Biotin]. Tissue: prostate at 40X. Fixation: FFPE buffered formalin 10% conc. Antigen retrieval: Heat, Citrate pH 6.2. Pressure Cooker, left. (pH 9 shown on right as negative control). Primary antibody: AKT1sS473 biotin 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.



Immunohistochemistry: AKT1 [p Ser473] Antibody (17F6.B11) [Biotin] [NBP2-21678] - Immunohistochemistry of AKT11 [p Ser473] antibody (17F6.B11) [Biotin]. Tissue: prostate at 40X (left) with negative control (right). Fixation: FFPE buffered formalin 10% conc. Antigen retrieval: Heat, Citrate pH 6.2. Pressure Cooker. Primary antibody: AKT1 pS473 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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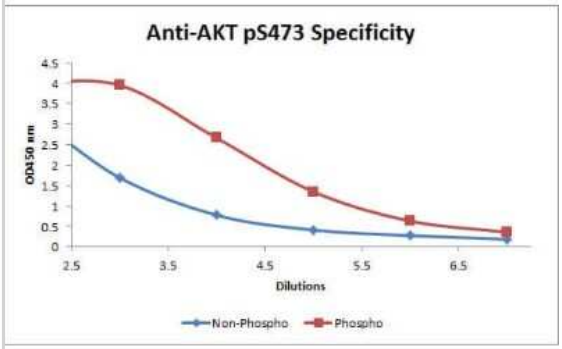
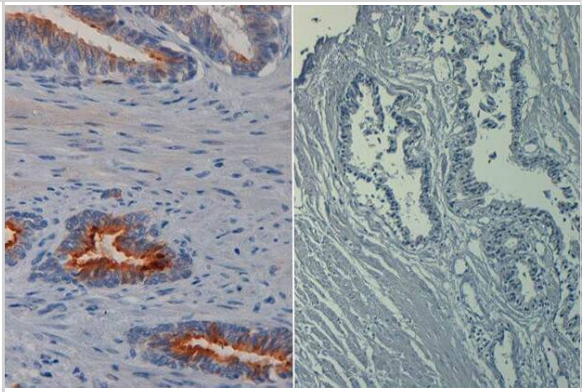
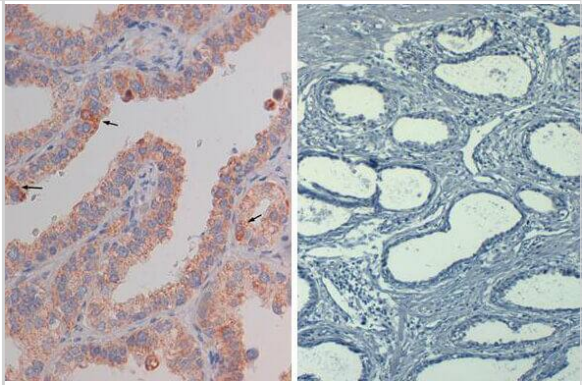
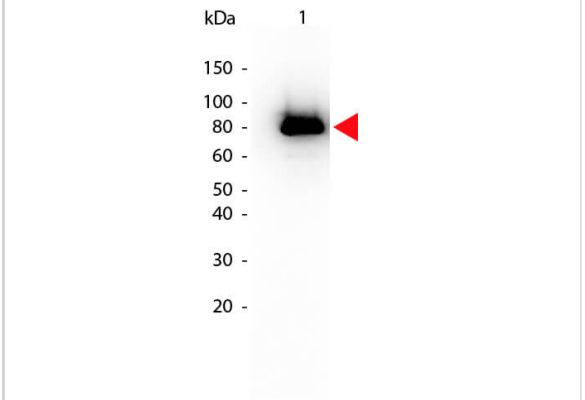
|---|---|
| ELISA: AKT1 [p Ser473] Antibody (17F6.B11) [Biotin] [NBP2-21678] - ELISA of AKT1 [p Ser473] antibody (17F6.B11) [Biotin]. Antigen: BSA conjugates of AKT1 phospho S473 and AKT non-phospho S473. Coating amount: 0.1 ug per well. Primary antibody: AKT1 phospho S473 Biotin Conjugated antibody at 5 ug/mL. Dilution series: 3-fold. Mid-point concentration: 5 ng/mL AKT1 phospho S473 Biotin Conjugated antibody. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:10,000. Substrate: TMB |  |
| Immunohistochemistry of mouse anti AKT phospho S473 biotin conjugated. Tissue: prostate at 40X (left) with negative control (right). Fixation: FFPE buffered formalin 10% conc. Antigen retrieval: Heat, Citrate pH 6.2. Pressure Cooker. Primary antibody: AKT pS473 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. |  |
| Immunohistochemistry of mouse Anti-AKT pS473 (MOUSE) Biotin Conjugated. Tissue: prostate at 40X. Fixation: FFPE buffered formalin 10% conc. Antigen retrieval: Heat, Citrate pH 6.2. Pressure Cooker, left. (pH 9 shown on right as negative control). Primary antibody: AKTsS473 biotin 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. |  |
| Western Blot of Mouse anti-Akt phospho S473 Biotin Conjugated antibody. Lane 1: GST tagged AKT1 active recombinant protein. Lane 2: none. Load: 25 ng per lane. Primary antibody: Akt phospho S473 Biotin Conjugated antibody at 1:1,000 for 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 S473. Other band(s): none |  |

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## Products Related to NBP2-21678

| | |
|---|---|
| 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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