

Product Datasheet

HSP90 alpha [ac Lys294] Antibody - BSA Free NBP1-77944

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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Publications: 1

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NBP1-77944

HSP90 alpha [ac Lys294] Antibody - BSA Free

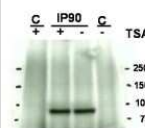
Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	<p>This affinity purified antibody is directed against human Hsp90 protein acetylated at K294. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography using acetyl-peptide coupled to agarose beads followed by solid phase adsorption against non-acetyl peptide</p> <p>Store vial 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	Rabbit
Gene ID	3320
Gene Symbol	HSP90AA1
Species	Human
Reactivity Notes	A BLAST analysis was used to suggest cross-reactivity with HSP90 alpha from human, mouse, rat, monkey, chicken and Drosophila based on 100% homology with the immunizing sequence. Reactivity of this antibody with HSP90 alpha from other species is unknown.
Specificity/Sensitivity	This affinity purified antibody is directed against human HSP90 alpha protein acetylated at K294. While ELISA data show strong reactivity with the acetylated form of the immunizing peptide and minimal reactivity with the non-acetylated form, to date western blotting data are not definitive for acetyl K294 specificity as blots show equivalent staining of lysates from cells either treated or untreated with Trichostatin A (an HDAC inhibitor). A BLAST analysis was used to suggest cross-reactivity with HSP90 alpha from human, mouse, rat, monkey, chicken and Drosophila based on 100% homology with the immunizing sequence. Reactivity of this antibody with HSP90 alpha from other species is unknown.
Immunogen	This affinity purified HSP90 alpha [ac Lys294] Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids surrounding K294 of human HSP90 alpha. (Uniprot: P07900)
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:2500, ELISA 1:2500-1:10000, Immunohistochemistry 5-10 ug/ml, Immunohistochemistry-Paraffin 20 ug/ml

Application Notes

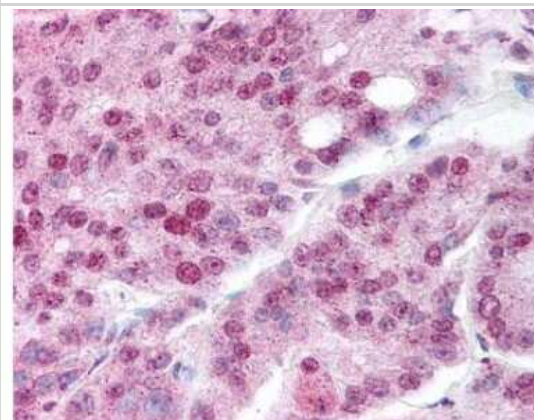
This affinity purified antibody has been tested for use in ELISA, immunohistochemistry and western blot. This antibody reacts strongly with the acetylated form of the immunizing peptide and shows minimal reactivity with the non-acetylated form when tested by ELISA. To date, western blotting shows equivalent staining of lysates either treated or untreated with Trichostatin A (an HDAC inhibitor). Therefore, western blotting results are not definitive for demonstrating the specificity of this reagent. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 90 kDa in size corresponding to Hsp90 protein by western blotting in the appropriate cell lysate or extract.

Images

Western Blot: HSP90 alpha [ac Lys294] Antibody [NBP1-77944] - Shows detection of a band at ~90 kDa corresponding to Hsp90 in an SkBr3 cell lysate (arrowhead) after treatment with Trichostatin A (an HDAC inhibitor). Western blotting results do not definitively demonstrate the acetyl K294 specificity of this reagent because similar staining is seen in the control lane (no treatment with TSA). Immunoprecipitation with anti-Hsp90 was performed prior to western blotting with anti-Hsp90 acetyl K294.



Immunohistochemistry: HSP90 alpha [ac Lys294] Antibody [NBP1-77944] - Used at 20 ug/ml to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides. This image shows moderate nuclear and granular cytoplasmic positive staining in human prostate carcinoma at 40X. Tissue was formalin-fixed and paraffin embedded. The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain.



affinity purified anti-Hsp90 acetyl K294 antibody was used at 20 ug/ml to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides. This image shows moderate nuclear and granular cytoplasmic positive staining in human prostate carcinoma at 40X. Tissue was formalin-fixed and paraffin embedded. The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.

**Publications**

Martini S, Zuco V, Tortoreto M et al. miR-34a-Mediated Survivin Inhibition Improves the Antitumor Activity of Selinexor in Triple-Negative Breast Cancer Pharmaceuticals (Basel, Switzerland) 2021-05-29 [PMID: 34072442] (WB, Human)



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Products Related to NBP1-77944

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-77682PEP	HSP90 alpha Antibody Blocking Peptide

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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