

Datasheet for 600-401-929**HSP90 alpha Antibody****Overview**

Description:	Anti-Heat Shock Protein HSP 90-alpha (RABBIT) Antibody - 600-401-929
Item No.:	600-401-929
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat, Chicken, D. melanogaster, Monkey
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Hsp90 is a member of the heat shock protein 90 family that functions as a molecular chaperone and has ATPase activity. Hsp90 family proteins are highly conserved between isoforms and species. Several signal transduction pathways depend on Hsp90 function including erbB2, steroid hormone receptors (such as androgen, progesterone, glucocorticoid, and aryl-hydrocarbon), and hypoxia sensing (Hif1alpha). Recent reports show that tumor cells are more sensitive to Hsp90 inhibition and that Hsp90 from tumor cells is more sensitive to small molecule inhibitors (eg 17AAG). The mechanism of this differential sensitivity of normal versus tumor Hsp90 is not known (although mutation has been ruled out). One possible mechanism may be differences in post-translational modification of tumor Hsp90.
Synonyms:	rabbit anti-Heat Shock Protein HSP 90-alpha antibody, HSP 86 antibody, Heat shock 86kDa antibody, Renal carcinoma antigen NY REN 38 antibody, Heat shock 90kDa protein 1 alpha antibody, Lipopolysaccharide-associated protein 2, LAP-2, HSP90A, HSPC1, HSPCA, HSP90AA1, HSP 90-α
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HSP90AA1
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Reactivity:	Human, Mouse, Rat, Chicken, D. melanogaster, Monkey
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 289-300 of human Hsp90 protein.
Purity/Specificity:	This affinity-purified antibody is directed against human Hsp90 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross reactivity with Hsp90 from human, mouse, rat, monkey, chicken and Drosophila based on 100% homology with the immunizing sequence. Reactivity of this antibody with Hsp90 from other species is unknown.
Relevant Links:	• UniProtKB - P07900 • NCBI - NP_001017963.2 • GeneID - 3320

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blot. 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
IHC:	User Optimized
WB:	1:500 - 1:2,500

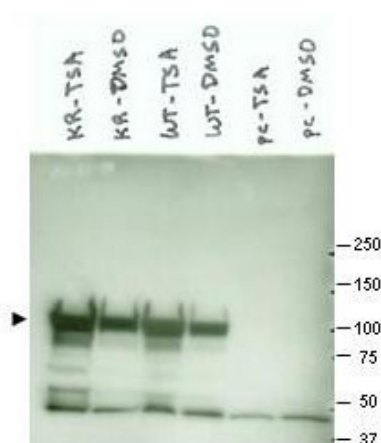
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.24 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C 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 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot using Rockland's Affinity Purified anti-Hsp90 antibody shows detection of a band at ~90 kDa corresponding to Hsp90 in various lysate preparations (arrowhead). Cos7 transfected with mutant K294R Hsp90 (left two lanes), Cos7 transfected with wild type Hsp90 (middle two lanes) and empty vector Cos7 cells (right two lanes) were either treated with Trichostatin A (an HDAC inhibitor) or mock treated with DMSO only, as indicated. Transfected cells express either mutant or wt Hsp90 coupled to FlagTM tag. Anti-FlagTM immunoprecipitation was performed prior to western blotting with anti-Hsp90. Personal Communication, Brad Scroggins, Urologic Oncology Branch, CCR, NCI, Rockville, MD.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.