

Datasheet for 209-301-F70

HSP90 alpha Antibody

Overview

Description:	Anti-HSP90 alpha (MOUSE) Monoclonal Antibody - 209-301-F70
Item No.:	209-301-F70
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:

Hsp90 is a highly conserved and essential stress protein that is expressed in all eukaryotic cells. From a functional perspective, hsp90 participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of a chaperone complex. Despite its label of being a heat-shock protein, hsp90 is one of the most highly expressed proteins in unstressed cells (1–2% of cytosolic protein). It carries out a number of housekeeping functions – including controlling the activity, turnover, and trafficking of a variety of proteins. Most of the hsp90- regulated proteins that have been discovered to date are involved in cell signaling. The number of proteins now known to interact with Hsp90 is about 100. Target proteins include the kinases v-Src, Wee1, and c-Raf, transcriptional regulators such as p53 and steroid receptors, and the polymerases of the hepatitis B virus and telomerase.⁵ When bound to ATP, Hsp90 interacts with co-chaperones Cdc37, p23, and an assortment of immunophilin-like proteins, forming a complex that stabilizes and protects target proteins from proteasomal degradation. In most cases, hsp90-interacting proteins have been shown to co-precipitate with hsp90 when carrying out immunoadsorption studies, and to exist in cytosolic heterocomplexes with it. In a number of cases, variations in hsp90 expression or hsp90 mutation has been shown to degrade signaling function via the protein or to impair a specific function of the protein (such as steroid binding, kinase activity) in vivo. Ansamycin antibiotics, such as geldanamycin and radicicol, inhibit hsp90 function.

Synonyms:	mouse anti-Anti-Hsp90 alpha, mouse anti-Anti-Hsp90a, mouse anti-heat shock protein 90 alpha, Hsp86, Hsp89A, Hsp90AA1, Hsp90Alpha, HspC1, HSPCA, HspCAL3, Heat shock protein HSP 90- alpha, Heat shock 86 kDa, HSP 86, HSP86, Renal carcinoma antigen NY-REN-38, HSP90AA1, HSP90A, HSPC1, HSPCA
Host Species:	Mouse
Clonality:	Monoclonal

Clone ID: Hyb-K41009

Format: IgG2a

Target Details

Gene Name: HSP90AA1

Reactivity: Human, Mouse, Rat

Immunogen Type: Conjugated Peptide

Immunogen: Hsp90 α Antibody was produced in mice by repeated immunizations raised against recombinant human Hsp90 α .

Purity/Specificity: Anti-Hsp90 α Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Hsp90 from Human (α -specific) sources based on 100% homology with the immunizing sequence. Cross-reactivity with Hsp90 from other sources has not been determined. Heat Shock research.

Relevant Links:

- [NCBI - NP_001017963.2](#)
- [GenelD - 3320](#)
- [UniProtKB - P07900](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-Hsp90 Antibody is tested for WB and IHC-P. Expect a band approximately 90kDa proteins corresponding to the molecular mass of Hsp90 α on SDS PAGE immunoblots. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:200

IHC: 1:5000

WB: 1:1000

Formulation

Physical State: Liquid (sterile filtered)

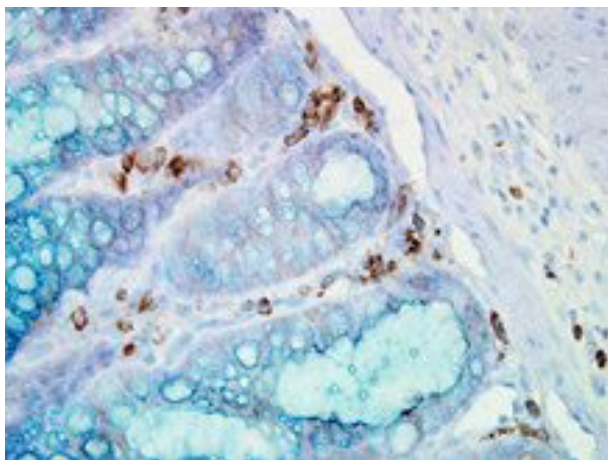
Concentration: 1mg/mL by UV absorbance at 280 nm

Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

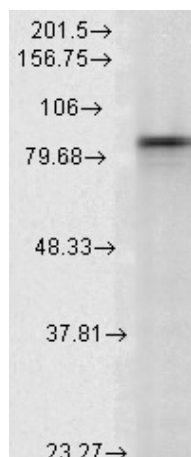
Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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



Immunohistochemistry

Immunohistochemistry of mouse anti-Hsp90 antibody.
Tissue: inflammatory cells in mouse colon tissues. Primary
Antibody: Hsp90 antibody at 1 µg/mL for 1h at RT.
Secondary antibody: Peroxidase mouse secondary at
1:10,000 for 45 min at RT. Localization: Cytoplasm.
Staining: Hsp90 as brown signal.

**Western Blot**

Western Blot of mouse anti-Hsp90 antibody. Lane 1: rat tissues. Lane 2: none. Load: 10 µg per lane. Primary antibody: Hsp90 antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 84.1 kDa for Hsp90. Other band(s): none.

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.