

Datasheet for ABIN6655033
anti-HSP90AA1 antibody



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2 Images

Overview

Quantity:	100 µg
Target:	HSP90AA1
Reactivity:	Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HSP90AA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP)

Product Details

Purpose:	Hsp90 Antibody
Immunogen:	Hsp90 Antibody was produced in mice by repeated immunizations raised against full length protein Hsp90 purified from chicken brain.
Clone:	D7A
Isotype:	IgG
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Hsp90 from Bovine, Chicken, Human, Mouse, Porcine, Rat, and Rabbit based on 100 % homology with the immunizing sequence.
Purification:	Anti-Hsp90 Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target: HSP90AA1

Alternative Name: HSP90AA1 ([HSP90AA1 Products](#))

Background: Synonyms: Hsp84, Hsp90, Hsp90 beta, Hsp90B, HspC2, HSPCB, Heat shock protein HSP 90-alpha, HSP90AA1, HSPCA

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.

Gene Name: HSP90AA1

Gene ID: 423463

NCBI Accession: [NP_001103255](#)

UniProt: [P11501](#)

Pathways: [M Phase](#), [Regulation of Cell Size](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [VEGFR1 Specific Signals](#)

Application Details

Application Notes: Immunoprecipitation_Dilution: 5 µg/20uL
ELISA_Dilution: 1:200
Immunohistochemistry_Dilution: User Optimized

Application Details

Western_Blot_Dilution: 1:500

Comment: Anti-Hsp90 Antibody is tested for WB, IP, ELISA, and IHC. Expect a band approximately 90kD proteins corresponding to the molecular mass of Hsp90 on SDS Page immunoblots. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

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

Preservative: Sodium azide

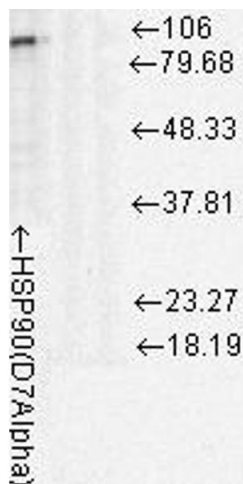
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: 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.

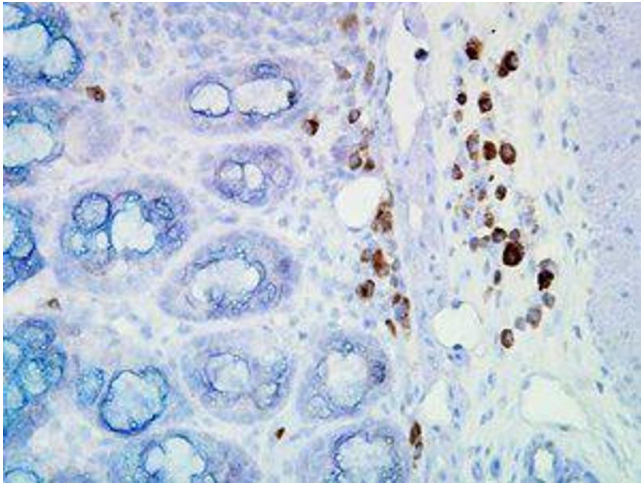
Expiry Date: 12 months

Images



Western Blotting

Image 1. Hsp90 Western Blot. Western Blot of mouse anti-Hsp90 antibody. Lane 1: rat tissue lysate. Lane 2: none. Load: 35 µg per lane. Primary antibody: Hsp90 antibody at 1:1000 for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 83.3 kDa/~90 kDa for Hsp90. Other band(s): none.



Immunohistochemistry

Image 2. Hsp90 Immunohistochemistry. Immunohistochemistry of mouse anti-Hsp90 antibody. Tissue: mouse colon tissue. Primary Antibody: Hsp90 antibody at 1 $\mu\text{g}/\text{mL}$ 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.