Mouse Hsp90 Monoclonal Antibody | anti-HSP90AA1 antibody

Hsp90 Antibody: ATTO 488

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103286	**Mouse**	**Bovine, Chicken, Human, Mouse, Porcine (Pig), Rat, Rabbit**	**Western Blot, Immunohistochemistry, Immunoprecipitation**

PRODUCT SYNONYMS

Hsp90; Monoclonal Antibody; Hsp90 Antibody: ATTO 488; Hsp86; Hsp89A; Hsp90A; Hsp90AA1; HspC1; HspCA; HsoCAL3; anti-HSP90AA1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Bovine, Chicken, Human, Mouse, Porcine (Pig), Rat, Rabbit
Clonality	Monoclonal
Isotype	IgG1
Clone Number	D7A
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	728
Applicable Applications for anti-HSP90AA1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IP (Immunoprecipitation)
Conjugate	ATTO 488
Storage Buffer	PBS, 50% glycerol, 0.09% sodium azide
Preparation and Storage	-20 degree C

IMAGES

WB (Western Blot)
Western Blot analysis of Rat cell lysates showing detection of Hsp90 protein using Mouse Anti-Hsp90 Monoclonal Antibody, Clone D7Alpha. Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp90 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

IHC (Immunohiostchemistry)
Immunohistochemistry analysis using Mouse Anti-Hsp90 Monoclonal Antibody, Clone D7alpha. Tissue: inflamed colon. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp90 Monoclonal Antibody at 1:100000 for 12 hours at 4 degree C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 ul for 2 minutes at RT. Localization: Inflammatory cells. Magnification: 40x. Inflammatory cells.

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Mouse Anti-Hsp90 Monoclonal Antibody, Clone D7alpha. Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp90 Monoclonal Antibody at 1:100000 for 12 hours at 4 degree C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 ul for 2 minutes at RT. Magnification: 40x.

ADDITIONAL INFORMATION

Related Product Information for anti-HSP90AA1 antibody	**Background Info:** Recognizes 90kDa proteins corresponding to the molecular mass of Hsp90. Hsp90alpha specific for human samples. Can isolate complexes of Hsp90, Src kinase and cec37. **Scientific 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 (4-7). 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 (8-9). 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(6). 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 immune-adsorption 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 (10).
Product Categories/Family for anti-HSP90AA1 antibody	Chaperones; Heat Shock; Organelle Markers; Trafficking
References	1. Schuh S. et al. (1985) J Biol Chem. 260 (26): 14292-14296. 2. Lipsich L.A., Cutt J.R. and Brugge J.S. (1982) Mol. Cell Biol. 2(7): 875-880. 3. Brugge J.S., Yonemoto W., and Darrow D. (1983) Mol. Cell. Biol. 3(1): 9-19. 4. Arlander SJH, et al. (2003) J Biol Chem 278: 52572-52577. 5. Pearl H, et al. (2001) Adv Protein Chem 59: 157-186. 6. Neckers L, et al. (2002) Trends Mol Med 8:S55-S61. 7. Pratt W, Toft D. (2003) Exp Biol Med 228:111-133. 8. Pratt W, Toft D. (1997) Endocr Rev 18: 306-360. 9. Pratt WB. (1998) Proc Soc Exptl Biol Med 217: 420-434. 10. Whitesell L, et al. (1994) Proc Natl Acad Sci USA 91: 8324- 8328.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157954047
NCBI GeneID	423463
NCBI Accession #	NP_001103255.1
NCBI GenBank Nucleotide #	NM_001109785.1
UniProt Accession #	P11501
Molecular Weight	84,059 Da
NCBI Official Full Name	heat shock protein HSP 90-alpha
NCBI Official Synonym Full Names	heat shock protein 90kDa alpha (cytosolic), class A member 1
NCBI Official Symbol	HSP90AA1
NCBI Protein Information	heat shock protein HSP 90-alpha; hypothetical protein; heat shock protein HSP90 alpha
UniProt Protein Name	Heat shock protein HSP 90-alpha

UniProt Gene Name	**HSP90AA1**
UniProt Synonym Gene Names	HSPCA
UniProt Entry Name	HS90A_CHICK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/hsp90-antibody-clone-d7a-western-blot-immunohistochemistry-immunoprecipitation-elisa/103286