

Datasheet for ABIN2481308 anti-HSP90 alpha/beta antibody (AA 291-304) (Atto 390)



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Images

Overview	
Quantity:	100 µg
Target:	HSP90 alpha/beta
Binding Specificity:	AA 291-304
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HSP90 alpha/beta antibody is conjugated to Atto 390

Application: Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant human HSP90alpha, Specificity mapped to amino acids 291-304
Clone:	Нуb-К41220А
Isotype:	lgG2a
Specificity:	Detects 90 kDa. Will detect both alpha (inducible) and beta (constitutively-expressed) forms.
Cross-Reactivity:	Human, Mouse, Rat, Saccharomyces cerevisiae
Purification:	Protein G Purified
Target Details	
Target:	HSP90 alpha/beta

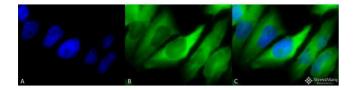
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Alternative Name:	HSP90 alpha/beta (HSP90 alpha/beta Products)
Background:	HSP90 is an abundantly and ubiquitously expressed heat shock protein. It is understood to exis
	in two principal forms α and $\beta,$ which share 85 % sequence amino acid homology. The two
	isoforms of HSP90 are expressed in the cytosolic compartment (1). Despite the similarities,
	HSP90 α exists predominantly as a homodimer while HSP90 β exists mainly as a monomer (2).
	From a functional perspective, HSP90 participates in the folding, assembly, maturation, and
	stabilization of specific proteins as an integral component of a chaperone complex (3-6).
	Furthermore, HSP90 is highly conserved between species, having 60 % and 78 % amino acid
	similarity between mammalian and the corresponding yeast and Drosophila proteins,
	respectively. HSP90 is a highly conserved and essential stress protein that is expressed in all
	eukaryotic cells. 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 (7-8). The number of proteins now know to interact with HSP90 is
	about 100. Target proteins include the kinases v-Src, Wee1, and c-Raf, transcriptional regulator
	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 (9). For more
	information visit our HSP90 Scientific Resource Guide at http://www.HSP90.ca.
Gene ID:	3326, 3320
NCBI Accession:	NP_031381, NP_001017963
UniProt:	P08238, P07900
Application Details	
Application Notes:	• WB (1:1000)
	• IHC (1:100)
	• ICC/IF (1:100)

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Application Details		
	optimal dilutions for assays should be determined by the user.	
Comment:	1 μg/ml was sufficient for detection of HSP90αβ in 20 μg of heat shocked HeLa cell lysate by colorimetric immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	PBS pH 7.2, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated	
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	
Storage Comment:	Conjugated antibodies should be stored at 4°C	

Images



Immunofluorescence (fixed cells)

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp90 alpha/beta Monoclonal Antibody, Clone K41220A . Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Anti-Hsp90 Primary Antibody: Mouse alpha/beta Monoclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Melanosome. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-Hsp90 alpha/beta Antibody. (C) Composite.

Images



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Mouse Anti-Hsp90 alpha Monoclonal Antibody, Clone K41220A . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Hsp90 alpha Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Epidermis.

Rat Brain→ T986→ PC3→ HUVEC→ HUVEC→ HEK293→ A43 106 $^{79.68}$ 106 $^{79.68}$ $^{48.33}$

Western Blotting

Image 3. Western Blot analysis of Human Cell lysates showing detection of Hsp90 alpha protein using Mouse Anti-Hsp90 alpha Monoclonal Antibody, Clone K41220A . Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp90 alpha Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Please check the product details page for more images. Overall 4 images are available for ABIN2481308.

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