HSP90AA1/HSP90AB1 recombinant antibody

HSP90AA1/HSP90AB1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA235559	**Rabbit**	**Human, Rat**	**Immunoprecipitation, Flow Cytometry, Functional Assay, Western Blot, ELISA**

PRODUCT SYNONYMS

HSP90AA1/HSP90AB1; Monoclonal Recombinant Antibody; HSP90AA1/HSP90AB1 Antibody; Heat shock protein HSP 90-alpha; Heat shock 86 kDa; HSP 86; HSP86; Lipopolysaccharide-associated protein 2; LAP-2; LPS-associated protein 2; Renal carcinoma antigen NY-REN-38; HSP90AA1; HSP90A; HSPC1; HSPCA; Heat shock protein HSP 90-beta; HSP 90; Heat shock 84 kDa; HSP 84; HSP84; HSP90AB1; HSP90B; HSPC2; HSPCB; HSP90AA1/HSP90AB1 recombinant antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity-Chromatography
Form/Format	Liquid; In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Sequence Length	854
Applicable Applications for HSP90AA1/HSP90AB1 recombinant antibody	IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen Species	Human
Immunogen	A synthesized peptide derived from human HSP90AA1/HSP90AB1
Conjugate	Non-Conjugated
Preparation and Storage	Upon receipt, store at-20 degree C or-80 degree C. Avoid repeated freeze.

IMAGES

FCM/FACS (Flow Cytometry)
Overlay histogram showing Jurkat cells stained with CSB-RA010802A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4 degree C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4 degree C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

IP (Immunoprecipitation)
Immunoprecipitating Hsp90 alpha + beta in Hela whole cell lysateLane 1: Rabbit control IgG instead of CSB-RA010802A0HU in Hela whole cell lysate.For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)Lane 2: CSB-RA010802A0HU (3ug) + Hela whole cell lysate (500ug)Lane 3: Hela whole cell lysate (20ug

WB (Western Blot)
Western BlotPositive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, K562 whole cell lysate, HL-60 whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysate, Jurkat whole cell lysate, PC3 whole cell lysate, Rat brain tissueAll lanes: Hsp90 alpha + beta antibody at 1.25ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 90 KDaObserved band size: 90 KDa

ADDITIONAL INFORMATION

Related Product Information for HSP90AA1/HSP90AB1 recombinant antibody	Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity which is essential for its chaperone activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function (PubMed:11274138, PubMed:15577939, PubMed:15937123, PubMed:27353360, PubMed:29127155). Engages with a range of client protein classes via its interaction with various co-chaperone proteins or complexes, that act as adapters, simultaneously able to interact with the specific client and the central chaperone itself (PubMed:29127155). Recruitment of ATP and co-chaperone followed by client protein forms a functional chaperone. After the completion of the chaperoning process, properly folded client protein and co-chaperone leave HSP90 in an ADP-bound partially open conformation and finally, ADP is released from HSP90 which acquires an open conformation for the next cycle (PubMed:27295069, PubMed:26991466). Apart from its chaperone activity, it also plays a role in the regulation of the transcription machinery. HSP90 and its co-chaperones modulate transcription at least at three different levels (PubMed:25973397). In the first place, they alter the steady-state levels of certain transcription factors in response to various physiological cues(PubMed:25973397). Second, they modulate the activity of certain epigenetic modifiers, such as histone deacetylases or DNA methyl transferases, and thereby respond to the change in the environment (PubMed:25973397). Third, they participate in the eviction of histones from the promoter region of certain genes and thereby turn on gene expression (PubMed:25973397). Binds bacterial lipopolysaccharide (LPS) and mediates LPS-induced inflammatory response, including TNF secretion by monocytes (PubMed:11276205). Antagonizes STUB1-mediated inhibition of TGF-beta signaling via inhibition of STUB1-mediated SMAD3 ubiquitination and degradation (PubMed:24613385).
Product Categories/Family for HSP90AA1/HSP90AB1 recombinant antibody	Recombinant Antibody; Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	153792590
NCBI GeneID	3320
NCBI Accession #	NP_001017963.2
NCBI GenBank Nucleotide #	NM_001017963.2
UniProt Accession #	P07900; Q2PP14; Q5CAQ6; Q5CAQ7; Q9BVQ5; A8K500; B3KPJ9
Molecular Weight	98,161 Da
NCBI Official Full Name	heat shock protein HSP 90-alpha isoform 1
NCBI Official Synonym Full Names	heat shock protein 90 alpha family class A member 1
NCBI Official Symbol	HSP90AA1
NCBI Official Synonym Symbols	EL52; HSPN; LAP2; HSP86; HSPC1; HSPCA; Hsp89; Hsp90; LAP-2; HSP89A; HSP90A; HSP90N; Hsp103; HSPCAL1; HSPCAL4; HEL-S-65p
NCBI Protein Information	heat shock protein HSP 90-alpha
UniProt Protein Name	Heat shock protein HSP 90-alpha

UniProt Gene Name	**HSP90AA1**
UniProt Synonym Gene Names	HSP90A; HSPC1; HSPCA; HSP 86; HSP86; LAP-2; LPS-associated protein 2

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/hsp90aa1-hsp90ab1-recombinant-antibody-immunoprecipitation-flow-cytometry-western-blot-elisa/235559