

Rabbit anti-Human Hsp90 alpha Polyclonal Antibody | anti-HSP90AA1 antibody

Anti-Hsp90 alpha Antibody, Rabbit Polyclonal

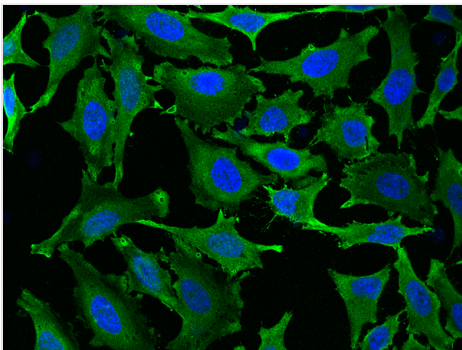
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA258523	Rabbit	Human	Immunofluorescence, Immunocytochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

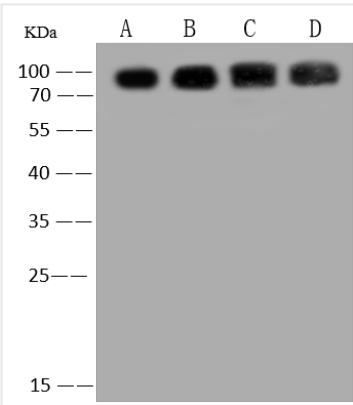
Hsp90 alpha; Polyclonal Antibody; Anti-Hsp90 alpha Antibody; Rabbit Polyclonal; Hsp90 alpha Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-EL52 Antibody; Anti-HSP86 Antibody; Anti-Hsp89 Antibody; Anti-HSP89A Antibody; Anti-Hsp90 Antibody; Anti-HSP90A Antibody; Anti-HSP90N Antibody; Anti-HSPC1 Antibody; Anti-HSPCA Antibody; Anti-HSPCAL1 Antibody; Anti-HSPCAL4 Antibody; Anti-HSPN Antibody; Anti-LAP-2 Antibody; Anti-LAP2 Antibody; heat shock protein 90kDa alpha (cytosolic); class A member 1; anti-HSP90AA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Hsp90 alpha
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-HSP90AA1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Conjugation	Unconjugated
Immunogen	Recombinant Human Hsp90 alpha Protein;
Preparation	Produced in rabbits immunized with purified, recombinant Human Hsp90 alpha (rh Hsp90 alpha;NP_005339.3; Glu535-Asp732). Hsp90 alpha specific IgG was purified by Human Hsp90 alpha affinity chromatography.
Preparation and Storage	This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IF (Immunofluorescence)
Immunofluorescence staining of Hsp90 alpha in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human Hsp90 alpha polyclonal antibody (dilution ratio 1:100) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



WB (Western Blot)
Anti-HSP90 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: HL-60 Whole Cell Lysate Lane C: HCT116 Whole Cell Lysate Lane D: MCF-7 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size:85 kDa Observed band size:95 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-HSP90AA1 antibody	Heat shock protein 90 (90 kDa heat-shock protein, HSP90) is a molecular chaperone involved in the trafficking of proteins in the cell. It is a remarkably versatile protein involved in the stress response and normal homoeostatic control mechanisms. HSP90 interacts with 'client proteins', including protein kinases, transcription factors, and others, and either facilitates their stabilization and activation or directs them for proteasomal degradation. By this means, HSP90 displays a multifaceted ability to influence signal transduction, chromatin remodeling and epigenetic regulation, development, and morphological evolution. HSP90 operates as a dimer in a conformational cycle driven by ATP binding and hydrolysis at the N-terminus. Disruption of HSP90 leads to client protein degradation and often cell death. Under stressful conditions, HSP90 stabilizes its client proteins and protects the cell against cellular stressors such as in cancer cells. Especially, several oncoproteins act as HSP90 client proteins and tumor cells require higher HSP90 activity than normal cells to maintain their malignancy. For this reason, Hsp90 has emerged as a promising target for anti-cancer drug development.
Product Categories/Family for anti-HSP90AA1 antibody	Cancer Drug Targets; Actin Dynamics Signaling Pathway
References	Pearl LH, et al. (2008) The Hsp90 molecular chaperone: an open and shut case for treatment. Biochem J. 410(3): 439-53.Hahn JS. (2009) The Hsp90 chaperone machinery: from structure to drug development. BMB Rep. 42(10): 623-30.Holzbeierlein JM, et al. (2010) Hsp90: a drug target. Curr Oncol Rep. 12(2): 95-101.Trepel J, et al. (2010) Targeting the dynamic HSP90 complex in cancer. Nat Rev Cancer. 10(8): 537-49.

NCBI AND UNIPROT INFORMATION

NCBI GI #	154146191
NCBI GeneID	3320
NCBI Accession #	NP_005339.3
NCBI GenBank Nucleotide #	NM_005348.3
UniProt Accession #	P07900; Q2PP14; Q5CAQ6; Q5CAQ7; Q9BVQ5; A8K500; B3KPJ9; O75322; Q2VPJ6; Q86SX1; Q86U12; Q8TBA7 ; Q96HX7
Molecular Weight	84,660 Da
NCBI Official Full Name	heat shock protein HSP 90-alpha isoform 2
NCBI Official Synonym Full Names	heat shock protein 90kDa alpha (cytosolic), class A member 1
NCBI Official Symbol	HSP90AA1

NCBI Official Synonym Symbols	HSPN; LAP2; HSP86; HSPC1; HSPCA; Hsp89; Hsp90; HSP89A; HSP90A; HSP90N; HSPCAL1; HSPCAL4; FLJ31884
NCBI Protein Information	heat shock protein HSP 90-alpha; HSP 86; heat shock 86 kDa; heat shock 90kD protein 1, alpha; heat shock 90kDa protein 1, alpha; renal carcinoma antigen NY-REN-38; heat shock 90kD protein, alpha-like 4; heat shock 90kD protein 1, alpha-like 4
UniProt Protein Name	Heat shock protein HSP 90-alpha
UniProt Gene Name	HSP90AA1
UniProt Synonym Gene Names	HSP90A; HSPC1; HSPCA; HSP 86; HSP86
UniProt Entry Name	HS90A_HUMAN

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://www.aaabiotech.com/polyclonal/hsp90-alpha-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/258523>