

Rabbit HSP90AA1 / Hsp90 Polyclonal Antibody | anti-HSP90AA1 antibody

Rabbit Polyclonal to Human HSP90AA1 / Hsp90

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50744	Rabbit	Chicken, Drosophila, Human, Monkey, Mouse, Rat	ELISA, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

HSP90AA1 / Hsp90; Polyclonal Antibody; Rabbit Polyclonal to Human HSP90AA1 / Hsp90; Anti-HSP90AA1 / Hsp90 Antibody (aa289-300) IHC-plus; HSP90AA1; EL52; HSP86; Hsp89; HSP89A; HSPC1; Heat shock 86 kDa; Hsp90; HSP90A; HSP90N; HSPCA; HSPCAL4; HSPN; LAP2; HSP 86; HSPCAL1; Human HSP90AA1; anti-HSP90AA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Chicken, Drosophila, Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Specificity	Amino acids 289-300 of human Hsp90 protein.
Purity/Purification	Immunoaffinity Purified
Form/Format	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	732
Applicable Applications for anti-HSP90AA1 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry)
Target Species	Human
Immunogen Description	Synthetic peptide from human HSP90AA1 / Hsp90.
Usage Summary	Immunohistochemistry: was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration was determined to be 2.5 ug/ml.
Summary	Hsp90 is a member of the heat shock protein 90 family that functions as a molecular chaperone and has ATPase activity. Hsp90 family proteins are highly conserved between isoforms and species. Several signal transduction pathways depend on Hsp90 function including erbB2, steroid hormone receptors (such as androgen, progesterone, glucocorticoid, and aryl-hydrocarbon), and hypoxia sensing (Hif1 alpha). Recent reports show that tumor cells are more sensitive to Hsp90 inhibition and that Hsp90 from tumor cells is more sensitive to small molecule inhibitors (eg 17AAG). The mechanism of this differential sensitivity of normal versus tumor Hsp90 is not known (although mutation has been ruled out). One possible mechanism may be differences in post-translational modification of tumor Hsp90. Hsp90 is a cytoplasmic protein that forms a homodimer in vivo, and interacts with TOM34, AHSA1, HDAC6 and SMYD3 .
Immunogen Type	Synthetic peptide
Immunogen	HSP90AA1 / Hsp90 antibody was raised against synthetic peptide from human HSP90AA1 / Hsp90.
Antigen Modification	aa289-300
Preparation and Storage	Long term: -20 degree C; Short term: +4 degree C. Avoid repeat freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-Hsp90 Antibody - Western Blot. Western blot of Affinity Purified anti-Hsp90 antibody shows detection of a band at ~90 kD corresponding to Hsp90 in various lysate preparations (arrowhead). Cos7 transfected with mutant K294R Hsp90 (left two lanes), Cos7 transfected with wild type Hsp90 (middle two lanes) and empty vector Cos7 cells (right two lanes) were either treated with Trichostatin A (an HDAC inhibitor) or mock treated with DMSO only, as indicated. Transfected cells express either mutant or wt Hsp90 coupled to Flag™ tag. Anti-Flag™ immunoprecipitation was performed prior to western blotting with anti-Hsp90. Personal Communication, Brad Scroggins, Urologic Oncology Branch, CCR, NCI, Rockville, MD.



IHC (Immunohistochemistry)

Anti-HSP90AA1 / Hsp90 antibody IHC of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 2.5 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-HSP90AA1 antibody	HSP90AA1 is a member of the group of proteins produced by cells to deal with stress such as elevated temperature. It is known to chaperone a key subset of signaling proteins and is necessary for malignant transformation. HSP90 is subject to an array of post translational modifications that affect its function including acetylation.
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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
Molecular Weight	98,161 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	EL52; HSPN; LAP2; HSP86; HSPC1; HSPCA; Hsp89; Hsp90; LAP-2; HSP89A; HSP90A; HSP90N; HSPCAL1; HSPCAL4
NCBI Protein Information	heat shock protein HSP 90-alpha; HSP 86; heat shock 86 kDa; LPS-associated protein 2; 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; epididymis luminal secretory protein 52; heat shock 90kD protein 1, alpha-like 4; lipopolysaccharide-associated protein 2
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
UniProt Entry Name	HS90A_HUMAN

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