

HSP90AA1 polyclonal antibody

Catalog # PAB10218 Size 100 ug

Applications

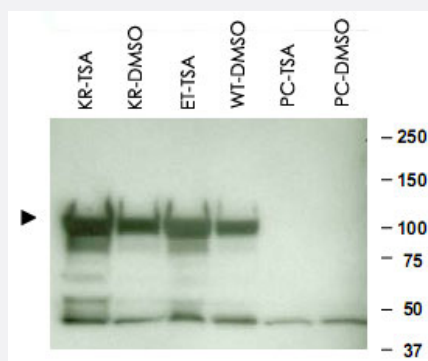
Western Blot (Transfected lysate)

Western blot using HSP90AA1 polyclonal antibody (Cat # PAB10218) shows detection of a band at ~90 KDa corresponding to HSP90AA1 in various lysate preparations (arrowhead).

COS-7 transfected with mutant K294R HSP90AA1 (left two lanes), COS-7 transfected with wild type HSP90AA1 (middle two lanes) and empty vector COS-7 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 HSP90AA1 coupled to Flag™ tag. Anti-Flag™ immunoprecipitation was performed prior to immunoblotting with HSP90AA1 polyclonal antibody.

Personal Communication, Brad Scroggins, Urologic Oncology Branch, CCR, NCI, Rockville, MD.



Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of HSP90AA1.
Immunogen	A synthetic peptide corresponding to amino acids 289-300 of human HSP90AA1.
Host	Rabbit
Reactivity	Chicken, Fruit fly, Human, Monkey, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:5000-1:25000) Western Blot (1:500-1:2500) The optimal working dilution should be determined by the end user.

Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — HSP90AA1

Entrez GeneID	3320
Protein Accession#	P46633;P07900
Gene Name	HSP90AA1
Gene Alias	FLJ31884, HSP86, HSP89A, HSP90A, HSP90N, HSPC1, HSPCA, HSPCAL1, HSPCAL4, HSPN, Hsp89, Hsp90, LAP2
Gene Description	heat shock protein 90kDa alpha (cytosolic), class A member 1
Omim ID	140571
Gene Ontology	Hyperlink

Gene Summary

HSP90 proteins are highly conserved molecular chaperones that have key roles in signal transduction, protein folding, protein degradation, and morphologic evolution. HSP90 proteins normally associate with other cochaperones and play important roles in folding newly synthesized proteins or stabilizing and refolding denatured proteins after stress. There are 2 major cytosolic HSP90 proteins, HSP90AA1, an inducible form, and HSP90AB1 (MIM 140572), a constitutive form. Other HSP90 proteins are found in endoplasmic reticulum (HSP90B1; MIM 191175) and mitochondria (TRAP1; MIM 606219) (Chen et al., 2005 [PubMed 16269234]).[supplied by OMIM]

Other Designations

heat shock 90kD protein 1, alpha|heat shock 90kD protein 1, alpha-like 4|heat shock 90kD protein, alpha-like 4|heat shock 90kDa protein 1, alpha

Publication Reference

- [An acetylation site in the middle domain of Hsp90 regulates chaperone function.](#)

Scroggins BT, Robzyk K, Wang D, Marcu MG, Tsutsumi S, Beebe K, Cotter RJ, Felts S, Toft D, Karnitz L, Rosen N, Neckers L. Molecular Cell 2007 Jan; 25(1):151.

Application: IP, Human, SK-BR-3 cells

- [HDAC6 regulates Hsp90 acetylation and chaperone-dependent activation of glucocorticoid receptor.](#)

Kovacs JJ, Murphy PJ, Gaillard S, Zhao X, Wu JT, Nicchitta CV, Yoshida M, Toft DO, Pratt WB, Yao TP. Molecular Cell 2005 May; 18(5):601.

Application: IP, WB, Human, A-549 cells

- [Histone deacetylase inhibitor LAQ824 down-regulates Her-2 and sensitizes human breast cancer cells to trastuzumab, taxotere, gemcitabine, and epothilone B.](#)

Fuino L, Bali P, Wittmann S, Donapaty S, Guo F, Yamaguchi H, Wang HG, Atadja P, Bhalla K. Molecular Cancer Therapeutics 2003 Oct; 2(10):971.

Application: IP-WB, WB-Ce, Human, SKBR-3, BT-474 cells

Pathway

- [Antigen processing and presentation](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

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- [Cardiovascular Diseases](#)
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