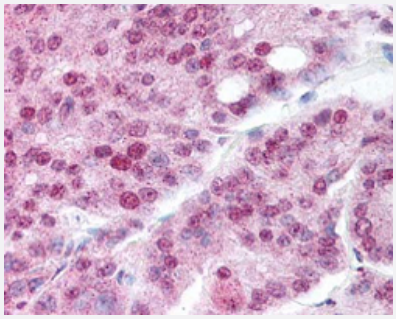
HSP90AA1 polyclonal antibody

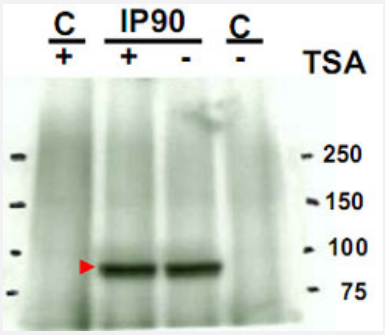
Catalog # PAB10219 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of HSP90AA1 polyclonal antibody (Cat # PAB10219) was used at 20 ug/mL to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides.
This image shows moderate nuclear and granular cytoplasmic positive staining in human prostate carcinoma at 40X.
Tissue was formalin-fixed and paraffin embedded.
The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.
Personal Communi-cation, Tina Roush, Life Span Biosciences, Seattle, WA.



Western Blot (Cell lysate)

Western blot using HSP90AA1 polyclonal antibody (Cat # PAB10219) shows detection of a band at ~90 KDa corresponding to HSP90AA1 in an SK-BR-3 cell lysate (arrowhead) after treatment with Trichostatin A (an HDAC inhibitor). Western blotting results do not definitively demonstrate the acetyl K294 specificity of this reagent because similar staining is seen in the control lane (no treatment with TSA).
Immuno-precipitation with HSP90AA1 polyclonal antibody was performed prior to immunoblotting with anti-HSP90AA1 acetyl K294.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of HSP90AA1.
Immunogen	A synthetic peptide corresponding to residues surrounding K294 of human HSP90AA1.
Host	Rabbit

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Reactivity	Chicken, Fruit fly, Human, Monkey, Mouse, Rat
Specificity	This affinity purified antibody is directed against human Hsp90 protein acetylated at K294.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2500-1:10000) Western Blot (1:500-1:2500) Immunohistochemistry (5-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_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 shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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  This image shows moderate nuclear and granular cytoplasmic positive staining in human prostate carcinoma at 40X.
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  Personal Communi-cation, Tina Roush, Life Span Biosciences, Seattle, WA.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot using HSP90AA1 polyclonal antibody (Cat # PAB10219) shows detection of a band at ~90 KDa corresponding to HSP90AA1 in an SK-BR-3 cell lysate (arrowhead) after treatment with Trichostatin A (an HDAC inhibitor).
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Gene Info — HSP90AA1

Entrez GeneID	3320

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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

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Pathway

- Antigen processing and presentation
- Pathways in cancer
- Prostate cancer

Disease

- Asthma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Diabetes Mellitus
- Edema

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