

## **HSP90A Polyclonal Antibody**

Catalog No: YT2257

Reactivity: Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: HSP 90

**Fields:** >>Protein processing in endoplasmic reticulum;>>PI3K-Akt signaling

pathway;>>Necroptosis;>>Antigen processing and presentation;>>NOD-like

receptor signaling pathway;>>IL-17 signaling pathway;>>Th17 cell

differentiation;>>Progesterone-mediated oocyte maturation;>>Estrogen signaling

pathway;>>Salmonella infection;>>Pathways in cancer;>>Chemical carcinogenesis - receptor activation;>>Prostate cancer;>>Lipid and

atherosclerosis;>>Fluid shear stress and atherosclerosis

Gene Name: HSP90AA1

**Protein Name:** Heat shock protein HSP 90-alpha

P07900

P07901

Human Gene Id: 3320

**Human Swiss Prot** 

No:

Mouse Gene Id: 15519

**Mouse Swiss Prot** 

No:

**Rat Gene Id:** 299331

Rat Swiss Prot No: P82995

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

HSP90A. AA range:683-732

**Specificity:** HSP90A Polyclonal Antibody detects endogenous levels of HSP90A protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

1/4



**Source :** Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not

yet tested in other applications.

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 85kD

Cell Pathway: PI3K/Akt; Protein\_Acetylation

**Background:** The protein encoded by this gene is an inducible molecular chaperone that

functions as a homodimer. The encoded protein aids in the proper folding of specific target proteins by use of an ATPase activity that is modulated by co-chaperones. Two transcript variants encoding different isoforms have been found

for this gene. [provided by RefSeq, Jan 2012],

**Function:** caution:Despite classification as a pseudogene, the existence of this protein is

supported by unambiguous mass spectrometry evidence.,function:Molecular

chaperone.,function:Molecular chaperone. Has ATPase

activity., similarity: Belongs to the heat shock protein 90 family., subcellular

location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Homodimer. Interacts with AHSA1, SMYD3 and TOM34.

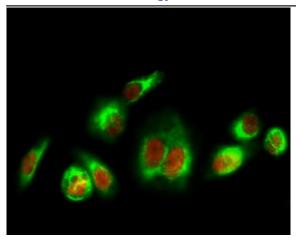
Interacts with FNIP1 and HSF1.,

Subcellular Nucleus . Cytoplasm . Melanosome . Cell membrane . Mitochondrion . Identified

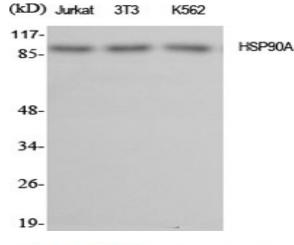
**Location:** by mass spectrometry in melanosome fractions from stage I to stage IV.

**Expression :** Adult brain, Brain, Brain cortex, Breast, Cajal-Retzius

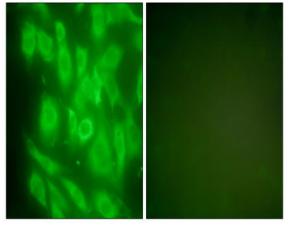
## **Products Images**



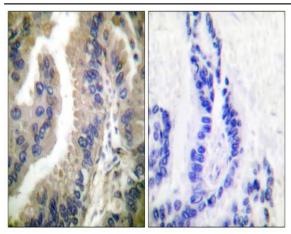
Immunofluorescence analysis of Hela cell. 1,HSP90A Polyclonal Antibody(red) was diluted at 1:200(4° overnight). Active Caspase-3 Monoclonal Antibody(5E1)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



Western Blot analysis of various cells using HSP90A Polyclonal Antibody diluted at 1:2000



Immunofluorescence analysis of NIH/3T3 cells, using HSP90A Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using HSP90A Antibody. The picture on the right is blocked with the synthesized peptide.