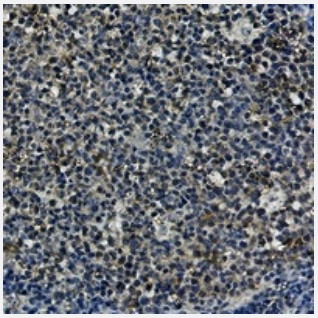
RecomAb™ Sm Size

# HSP90AA1 recombinant monoclonal antibody

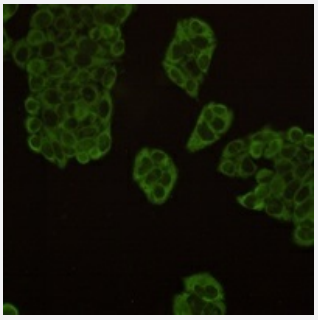
Catalog # RAB09180 Size 50 uL

## Applications



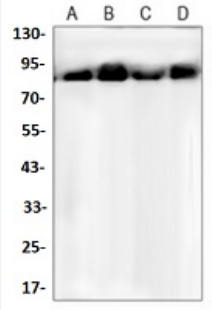
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human tonsil formalin fixed paraffin embedded tissue section using HSP90 alpha/beta recombinant monoclonal antibody (Cat # RAB09180). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.122). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



### Immunofluorescence

Immunofluorescent analysis of HeLa cells with HSP90 alpha/beta recombinant monoclonal antibody (Cat # RAB09180). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.




### Western Blot

Western blot analysis of rat brain (A), C6 (B), NIH3T3 (C), Hela (D) whole cell lysates with HSP90 alpha/beta recombinant monoclonal antibody (Cat # RAB09180).

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## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human HSP90AA1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein of human Hsp90 beta. |
| **Theoretical MW (kDa)** | 90 |
| **Reactivity** | Human, Mouse, Rat |
| **Specificity** | Recognizes endogenous levels of HSP90 alpha/beta protein. |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Immunogen affinity chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | Immunocytochemistry (1:50-1:100)<br>Immunofluorescence (1:50-1:100)<br>Immunohistochemistry (1:50-1:100)<br>Immunoprecipitation (1:10-1:50)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

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## Gene Info — HSP90AA1

| | |
|---|---|
| **Entrez GeneID** | 3320 |
| **Protein Accession#** | P07900;P08238 |
| **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 |

## Pathway

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

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## Disease

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

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