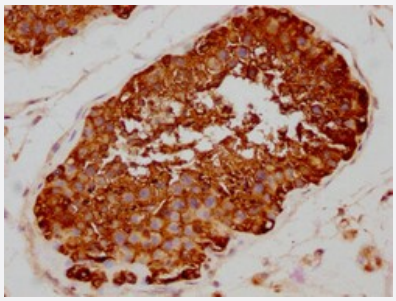
RecomAb™ Sm Size

# HSP90AA1 recombinant monoclonal antibody, clone 4B5

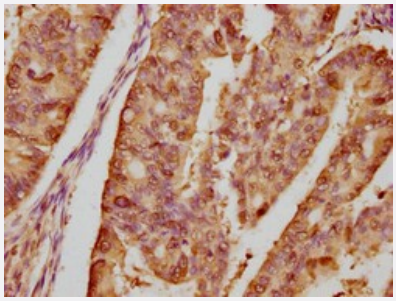
Catalog # RAB08219 Size 50 uL

## Applications



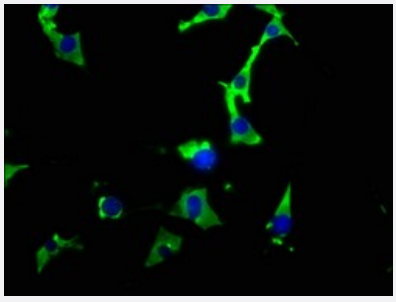
### Immunohistochemistry

Immunohistochemical staining of human testis tissue with HSP90AA1 recombinant monoclonal antibody (diluated at 1:80).



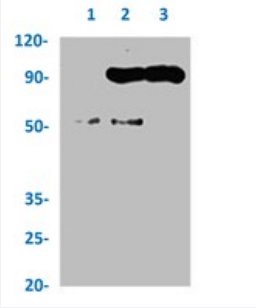
### Immunohistochemistry

Immunohistochemical staining of human endometrial cancer with HSP90AA1 recombinant monoclonal antibody (diluated at 1:80).



### Immunofluorescence

Immunofluorescent staining of NIH/3T3 cells with HSP90AA1 recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).




### Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with HSP90AA1 recombinant monoclonal antibody.
Lane 1: rabbit control IgG,
Lane 2: RAB08219 precipitates and
Lane 3: Input (Hela whole cell lysate).

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## Western Blot




Western blot analysis of
Lane 1: Hela whole cell lysate,
Lane 2: MCF-7 whole cell lysate,
Lane 3: K562 whole cell lysate,
Lane 4: HL-60 whole cell lysate,
Lane 5: HepG2 whole cell lysate,
Lane 6: A549 whole cell lysate,
Lane 7: Jurkat whole cell lysate,
Lane 8: PC3 whole cell lysate and
Lane 9: rat brain tissue with HSP90AA1 recombinant monoclonal antibody.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human HSP90AA1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic peptide corresponding to human HSP90AA1. |
| **Theoretical MW (kDa)** | Calculated MW: 85, 9 |
| **Reactivity** | Human, Rat |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA<br>Immunofluorescence (1:20-1:200)<br>Immunohistochemistry (1:50-1:200)<br>Immunoprecipitation (1:200-1:1000)<br>Western Blot (1:500-1:5000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide) |
| **Storage Instruction** | Store at -20 °C or -80 °C.<br>Aliquot to avoid repeated freezing and thawing. |

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| | |
|---|---|
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry

  Immunohistochemical staining of human testis tissue with HSP90AA1 recombinant monoclonal antibody (diluated at 1:80).

- Immunohistochemistry

  Immunohistochemical staining of human endometrial cancer with HSP90AA1 recombinant monoclonal antibody (diluated at 1:80).

- Immunofluorescence

  Immunofluorescent staining of NIH/3T3 cells with HSP90AA1 recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

- Immunoprecipitation

  Immunoprecipitation analysis of HeLa cell lysate with HSP90AA1 recombinant monoclonal antibody.
  Lane 1: rabbit control IgG,
  Lane 2: RAB08219 precipitates and
  Lane 3: Input (Hela whole cell lysate).

- Western Blot

  Western blot analysis of
  Lane 1: Hela whole cell lysate,
  Lane 2: MCF-7 whole cell lysate,
  Lane 3: K562 whole cell lysate,
  Lane 4: HL-60 whole cell lysate,
  Lane 5: HepG2 whole cell lysate,
  Lane 6: A549 whole cell lysate,
  Lane 7: Jurkat whole cell lysate,
  Lane 8: PC3 whole cell lysate and
  Lane 9: rat brain tissue with HSP90AA1 recombinant monoclonal antibody.

## Gene Info — HSP90AA1

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

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| | |
|---|---|
| **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

## Disease

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

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