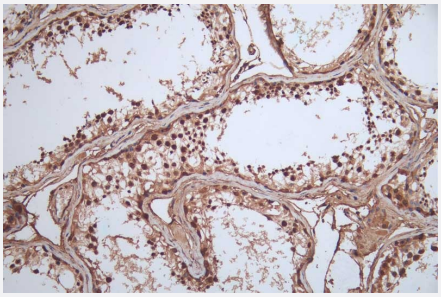
RecomAb™

# HSP90AB1 recombinant monoclonal antibody, clone 7G7

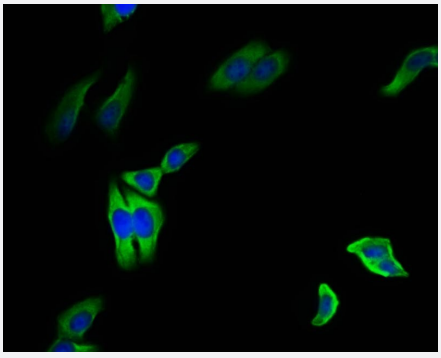
Catalog # RAB07562 Size 100 uL

## Applications



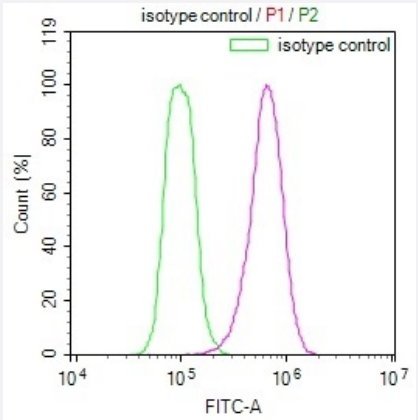
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human testis tissue using HSP90AB1 recombinant monoclonal antibody, clone 7G7 (Cat # RAB07562) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



### Immunofluorescence

Immunofluorescent staining of HepG2 Cells with HSP90AB1 recombinant monoclonal antibody, clone 7G7 (Cat # RAB07562), counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 495-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).




### Flow Cytometry

Flow cytometry shows Hela cells stained with HSP90AB1 recombinant monoclonal antibody, clone 7G7 (Cat # RAB07562)(red line). The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10$^6$cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1ug/1*10$^6$cells) used under the same conditions. Acquisition of >10,000 events was performed.

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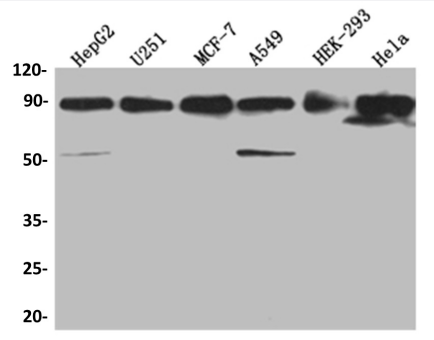


## Western Blot (Cell lysate)

Western blot analysis of HepG2 whole cell lysate, U251 whole cell lysate, MCF-7 whole cell lysate, A549 whole cell lysate, HEK293 whole cell lysate, Hela whole cell lysate with HSP90AB1 recombinant monoclonal antibody, clone 7G7 (Cat # RAB07562).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human HSP90AB1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic peptide corresponding to human HSP90AB1. |
| **Theoretical MW (kDa)** | Calculated MW: 84 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity chromatography purification |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA<br>Flow Cytometry(1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (1:50-1:200)<br>Western Blot (1:500-1:2000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol) |
| **Storage Instruction** | Store at -20°C or -80°C.<br>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. |

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## Applications

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

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- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of HepG2 whole cell lysate, U251 whole cell lysate, MCF-7 whole cell lysate, A549 whole cell lysate, HEK293 whole cell lysate, Hela whole cell lysate with HSP90AB1 recombinant monoclonal antibody, clone 7G7 (Cat # RAB07562).

## Gene Info — HSP90AB1

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|---|---|
| **Entrez GeneID** | 3326 |
| **Protein Accession#** | P08238 |
| **Gene Name** | HSP90AB1 |
| **Gene Alias** | D6S182, FLJ26984, HSP90-BETA, HSP90B, HSPC2, HSPCB |
| **Gene Description** | heat shock protein 90kDa alpha (cytosolic), class B member 1 |
| **Omim ID** | 140572 |

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|---|---|
| **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 (MIM 140571), an inducible form, and HSP90AB1, 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** | OTTHUMP00000016517\|OTTHUMP00000016518\|OTTHUMP00000016519\|OTTHUMP00000039869\|heat shock 90kD protein 1, beta\|heat shock 90kDa protein 1, beta\|heat shock protein beta |

## Pathway

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

## Disease

- Asthma
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hematologic Diseases
- Kidney Failure
- Occupational Diseases

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