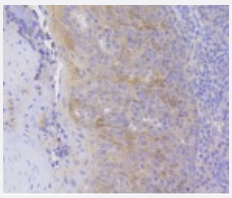
RecomAb™ Sm Size

# HSPA8 recombinant monoclonal antibody

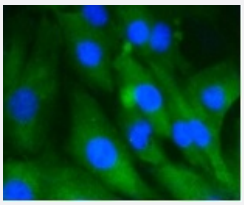
Catalog # RAB09350 Size 50 uL

## Applications



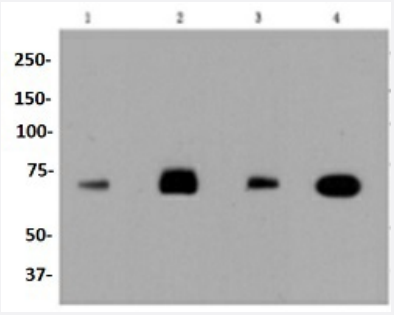
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue using HSPA8 recombinant monoclonal antibody (Cat # RAB09350).Counter stained with hematoxylin.



### Immunocytochemistry

Immunocytochemical staining of NIH/3T3 cells using HSPA8 recombinant monoclonal antibody (Cat # RAB09350)(green). The nuclear counter stain is DAPI (blue).Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.




### Western Blot (Cell lysate)

Western blot analysis of Lane1:HepG2 whole cell lysate Lane2:Hela whole cell lysate Lane3:NIH/3T3 whole cell lysate Lane4:PC12 whole cell lysate with HSPA8 recombinant monoclonal antibody (Cat # RAB09350) at 1:1000 dilution.

## Specification

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|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against HSPA8. |

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|---|---|
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant HSPA8. |
| **Theoretical MW (kDa)** | 71 |
| **Reactivity** | Human, Mouse, Rat |
| **Specificity** | This antibody detects endogenous levels of HSC 70 and does not cross-react with related proteins. |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunocytochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (1:50-1:200)<br>Western Blot (1:1000-1:2000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.2 (50% glycerol and 0.02% sodium azide) |
| **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. |

## Applications

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

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  Immunocytochemical staining of NIH/3T3 cells using HSPA8 recombinant monoclonal antibody (Cat # RAB09350)(green). The nuclear counter stain is DAPI (blue).Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

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## Gene Info — HSPA8

| | |
|---|---|
| **Entrez GeneID** | 3312 |
| **Protein Accession#** | P11142 |
| **Gene Name** | HSPA8 |
| **Gene Alias** | HSC54, HSC70, HSC71, HSP71, HSP73, HSPA10, LAP1, MGC131511, MGC29929, NIP71 |
| **Gene Description** | heat shock 70kDa protein 8 |
| **Omim ID** | 600816 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The product encoded by this gene belongs to the heat shock protein 70 family which contains both heat-inducible and constitutively expressed members. The latter are called heat-shock cognate proteins. This gene encodes a heat-shock cognate protein. This protein binds to nascent polypeptides to facilitate correct folding. It also functions as an ATPase in the disassembly of clathrin-coated vesicles during transport of membrane components through the cell. Two alternatively spliced variants have been characterized to date. [provided by RefSeq |
| **Other Designations** | LPS-associated protein 1\|N-myristoyltransferase inhibitor protein 71\|constitutive heat shock protein 70\|heat shock 70kD protein 8\|heat shock 70kd protein 10\|heat shock cognate protein 54\|heat shock cognate protein, 71-kDa\|lipopolysaccharide-associated pro |

## Pathway

- Antigen processing and presentation
- Endocytosis
- MAPK signaling pathway

## Disease

- Alzheimer disease
- Aneurysm
- Aortic Aneurysm
- Asthma
- Carcinoma

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- Cardiovascular Diseases
- Cognition
- Coronary Disease
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hypertension
- Infant
- Kidney Failure
- Lung Neoplasms
- Metabolic Syndrome X
- Renal Insufficiency
- Werner syndrome

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