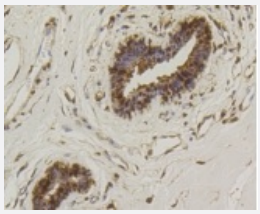
RecomAb™

HSPA1B recombinant monoclonal antibody

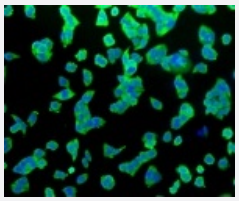
Catalog # RAB02656 Size 100 uL

Applications



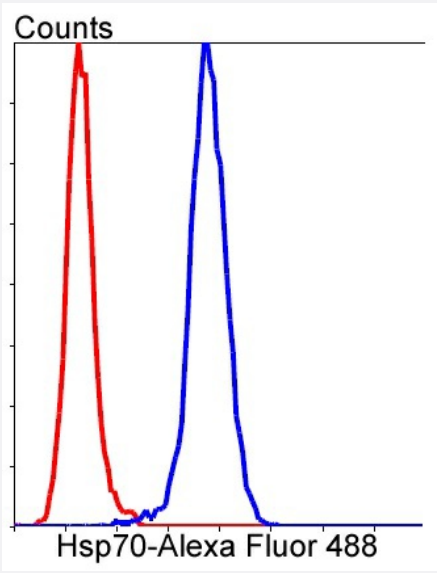
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HSPA1B recombinant monoclonal antibody (Cat # RAB02656). Counter stained with hematoxylin.



Immunocytochemistry

Immunocytochemical staining of HeLa cells using HSPA1B recombinant monoclonal antibody (Cat # RAB02656)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.



Flow Cytometry

Flow cytometric analysis of Hela cells with HSPA1B recombinant monoclonal antibody (Cat # RAB02656) at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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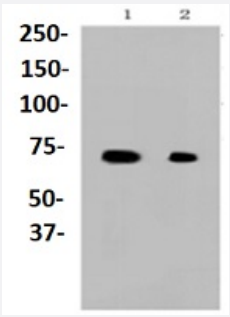

Western Blot (Cell lysate)

Western blot analysis of Lane1:MCF-7 whole cell lysate Lane2:HCT116 whole cell lysate with HSPA1B recombinant monoclonal antibody (Cat # RAB02656) at 1:1000 dilution.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against HSPA1B.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant HSPA1B.
Theoretical MW (kDa)	70
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of Hsp70 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	Flow Cytometry (1:10-1:100) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS , pH7.2 (0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. 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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Applications

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

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HSPA1B recombinant monoclonal antibody (Cat # RAB02656). Counter stained with hematoxylin.

- Immunofluorescence

- Immunocytochemistry

  Immunocytochemical staining of HeLa cells using HSPA1B recombinant monoclonal antibody (Cat # RAB02656)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

- Flow Cytometry

  Flow cytometric analysis of Hela cells with HSPA1B recombinant monoclonal antibody (Cat # RAB02656) at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

- Western Blot (Cell lysate)

  Western blot analysis of Lane1:MCF-7 whole cell lysate Lane2:HCT116 whole cell lysate with HSPA1B recombinant monoclonal antibody (Cat # RAB02656) at 1:1000 dilution.

Gene Info — HSPA1B

Entrez GeneID	3304
Protein Accession#	P0DMV9
Gene Name	HSPA1B
Gene Alias	FLJ54328, HSP70-1B, HSP70-2, HSPA1A
Gene Description	heat shock 70kDa protein 1B
Omim ID	603012
Gene Ontology	Hyperlink
Gene Summary	This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjuction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins. [provided by RefSeq

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Other Designations	OTTHUMP00000029288|heat shock 70kD protein 1B|heat shock 70kDa protein 1A

Pathway

- Antigen processing and presentation
- Endocytosis
- MAPK signaling pathway

Disease

- Abortion
- Acute Disease
- Altitude Sickness
- Alzheimer disease
- Autoimmune Diseases
- Body Weight
- Brain Ischemia
- Carcinoma
- Cardiovascular Diseases
- Carotid Stenosis
- Cerebrovascular Accident
- Cognition
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Critical Illness
- Crohn Disease
- Cross Infection

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- Depressive Disorder
- Diabetes Mellitus
- Diabetic Foot
- Diabetic Nephropathies
- Disease Progression
- Duodenal Ulcer
- Fetal Diseases
- Genetic Predisposition to Disease
- Graves Disease
- Helicobacter Infections
- Hepatitis B
- Hepatitis C
- Hypertension
- Infection
- Inflammation
- Kidney Failure
- Liver Neoplasms
- Lupus Erythematosus
- Multiple Organ Failure
- Multiple Sclerosis
- Multiple Trauma
- Musculoskeletal Diseases
- Nasopharyngeal Neoplasms
- Obesity
- Osteoporosis
- Pancreatitis

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- Parkinson disease
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Psychiatric Status Rating Scales
- Puerperal Disorders
- Pulmonary Disease
- Pulmonary Edema
- Recurrence
- Schizophrenia
- Schizophrenic Psychology
- Sepsis
- Shock
- Skin Diseases
- Spondylarthropathies
- Stomach Neoplasms
- Streptococcal Infections
- Stroke
- Systemic Inflammatory Response Syndrome
- Thyroiditis
- Urinary Tract Infections
- Ventricular Dysfunction

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