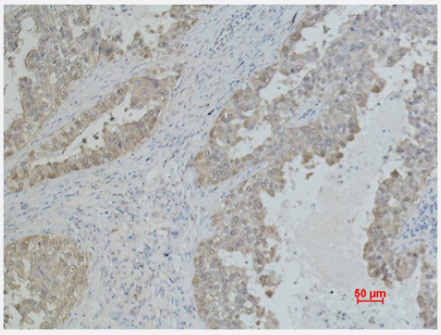
HSP70 monoclonal antibody, clone 3G10

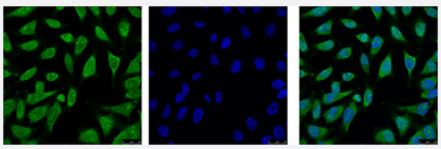
Catalog # MAB15248 Size 100 uL

Applications



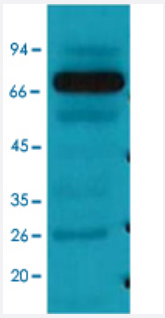
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lung carcicnoma.



Immunofluorescence

Immunofluorescence staining of HeLa cell line with antibody (Left), DAPI (Middle) and merge (Right).



Western Blot (Cell lysate)

Western Blot analysis of pig skeletal muscle.

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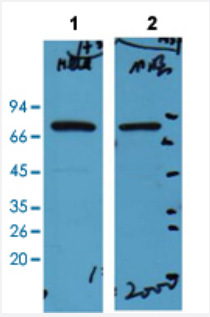

Western Blot

Western Blot analysis of Line 1: HeLa cell and Line 2: mouse brain tissue.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of human HSP70.
Immunogen	A synthetic peptide corresponding to N-terminus of human HSP70.
Host	Mouse
Reactivity	Human, Mouse, Pig
Form	Liquid
Purification	Affinity purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Immunofluorescence (1:100-1:200) Western Blot (1:1000-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 0.5% BSA, 0.02% sodium azide).
Storage Instruction	Store at -20°C. 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.

Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lung carcicnoma.

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- Immunofluorescence

  Immunofluorescence staining of HeLa cell line with antibody (Left), DAPI (Middle) and merge (Right).

- Western Blot (Cell lysate)

  Western Blot analysis of pig skeletal muscle.

- Western Blot

  Western Blot analysis of Line 1: HeLa cell and Line 2: mouse brain tissue.

Gene Info — HSPA1A

Entrez GeneID	3303
Protein Accession#	P34931
Gene Name	HSPA1A
Gene Alias	FLJ54303, FLJ54370, FLJ54392, FLJ54408, FLJ75127, HSP70-1, HSP70-1A, HSP70I, HSP72, HSPA1, HSPA1B
Gene Description	heat shock 70kDa protein 1A
Omim ID	140550
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
Other Designations	OTTHUMP00000029287|dnaK-type molecular chaperone HSP70-1|heat shock 70kD protein 1A|heat shock 70kDa protein 1B|heat shock-induced protein

Gene Info — HSPA1B

Entrez GeneID	3304
Protein Accession#	P34931
Gene Name	HSPA1B

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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 pr otein 70 family. In conjuction with other heat shock proteins, this protein stabilizes existing protein s against aggregation and mediates the folding of newly translated proteins in the cytosol and in o rganelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-ri ch element RNA-binding protein 1. The gene is located in the major histocompatibility complex cl ass III region, in a cluster with two closely related genes which encode similar proteins. [provided by RefSeq
Other Designations	OTTHUMP00000029288|heat shock 70kD protein 1B|heat shock 70kDa protein 1A

Gene Info — HSPA1L

Entrez GeneID	3305
Protein Accession#	P34931
Gene Name	HSPA1L
Gene Alias	HSP70-1L, HSP70-HOM, HSP70T, hum70t
Gene Description	heat shock 70kDa protein 1-like
Omim ID	140559
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a 70kDa heat shock protein. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translat ed proteins in the cytosol and in organelles. The gene is located in the major histocompatibility co mplex class III region, in a cluster with two closely related genes which also encode isoforms of th e 70kDa heat shock protein. [provided by RefSeq
Other Designations	OTTHUMP00000029295|heat shock 10kDa protein 1-like|heat shock 70kD protein-like 1

Pathway

- Antigen processing and presentation
- Antigen processing and presentation

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- Antigen processing and presentation
- Endocytosis
- Endocytosis
- Endocytosis
- MAPK signaling pathway
- MAPK signaling pathway
- MAPK signaling pathway
- Prion diseases

Disease

- Abortion
- Abortion
- Abortion
- Acute Disease
- Acute Disease
- AIDS-Related Opportunistic Infections
- Altitude Sickness
- Altitude Sickness
- Altitude Sickness
- Alzheimer disease
- Alzheimer disease
- Alzheimer disease
- Arthritis
- Atrial Fibrillation
- Autoimmune Diseases
- Body Weight

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- Bone Resorption
- Brain Ischemia
- Brain Ischemia
- Brain Ischemia
- Carcinoma
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Cardiovascular Diseases
- Carotid Stenosis
- Cerebrovascular Accident
- Cerebrovascular Accident
- Cerebrovascular Accident
- Cognition
- Cognition
- Cognition
- Colitis
- Connective Tissue Diseases
- Connective Tissue Diseases
- Connective Tissue Diseases
- Constriction
- Constriction
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Disease

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- Critical Illness
- Critical Illness
- Crohn Disease
- Crohn Disease
- Cross Infection
- Cross Infection
- Dementia
- Depressive Disorder
- Depressive Disorder
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Foot
- Diabetic Foot
- Diabetic Nephropathies
- Diabetic Nephropathies
- Diabetic Nephropathies
- Disease Progression
- Disease Progression
- Disease Progression
- Drug Hypersensitivity
- Drug Hypersensitivity
- Duodenal Ulcer
- Duodenal Ulcer

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- Duodenal Ulcer
- Edema
- Edema
- Epidermal Necrolysis
- Epidermal Necrolysis
- Exanthema
- Exanthema
- Fetal Diseases
- Fetal Diseases
- Fetal Diseases
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glaucoma
- Glaucoma
- Graft vs Host Disease
- Graves Disease
- Graves Disease
- Hearing
- Hearing Loss
- Hearing Loss

- Helicobacter Infections
- Helicobacter Infections
- Helicobacter Infections
- Hepatitis B

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- Hepatitis C
- Hypertension
- Hypertension
- Hypertension
- Infection
- Infection
- Infection
- Inflammation
- Inflammation
- Inflammation
- Inflammatory Bowel Diseases
- Kidney Failure
- Kidney Failure
- Kidney Failure
- Leishmaniasis
- Leprosy
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Erythematosus
- Lupus Erythematosus
- Meniere Disease
- Metabolic Syndrome X
- Multiple Organ Failure
- Multiple Organ Failure
- Multiple Sclerosis

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- Multiple Sclerosis
- Multiple Sclerosis
- Multiple Trauma
- Multiple Trauma
- Musculoskeletal Diseases
- Musculoskeletal Diseases
- Musculoskeletal Diseases
- Nasopharyngeal Neoplasms
- Neoplasms
- Obesity
- Obesity
- Obesity
- Optic Nerve Diseases
- Osteoporosis
- Osteoporosis
- Osteoporosis
- Pancreatitis
- Parkinson disease
- Parkinson disease
- Parkinson disease
- Pneumonia
- Postoperative Complications
- Precancerous Conditions
- Precancerous Conditions
- Precancerous Conditions
- Pre-Eclampsia

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- Pre-Eclampsia
- Pre-Eclampsia
- Pregnancy Complications
- Pregnancy Complications
- Pregnancy Complications
- Premature Birth
- Premature Birth
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Psychiatric Status Rating Scales
- Psychiatric Status Rating Scales
- Psychiatric Status Rating Scales
- Psychometrics
- Puerperal Disorders
- Pulmonary Disease
- Pulmonary Disease
- Pulmonary Disease
- Pulmonary Edema
- Pulmonary Edema
- Pulmonary Edema

- Recurrence
- Recurrence
- Recurrence
- Sarcoidosis
- Sarcoidosis

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- Schizophrenia
- Schizophrenia
- Schizophrenia
- Schizophrenic Psychology
- Schizophrenic Psychology
- Sepsis
- Shock
- Shock
- Skin Diseases
- Skin Diseases
- Skin Diseases
- Spondylarthropathies
- Spondylarthropathies
- Spondylarthropathies
- Spondylitis
- Stevens-Johnson Syndrome
- Stevens-Johnson Syndrome
- Stomach Neoplasms
- Stomach Neoplasms
- Stomach Neoplasms
- Streptococcal Infections
- Stress
- Stroke
- Stroke
- Stroke
- Syndrome

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- Systemic Inflammatory Response Syndrome
- Systemic Inflammatory Response Syndrome
- Thyroiditis
- Thyroiditis
- Tuberculosis
- Urinary Tract Infections
- Uveitis
- Uveitis
- Ventricular Dysfunction

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