

HSPA1A monoclonal antibody, clone 5A5 (RPE)

Catalog # MAB11406 Size 100 ug

Applications

Application Data with Unconjugated Antibody

Western Blot (Tissue lysate)

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Western blot analysis of rat skeletal muscle tissue with HSPA1A monoclonal antibody, clone 5A5 (Cat # MAB11390).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant HSPA1A.
Immunogen	Recombinant protein corresponding to human HSPA1A.
Host	Mouse
Reactivity	Amphibia, Chicken, Fish, Fruit fly, Human, Mouse, Rat, Yeast
Specificity	Detects several members of the heat shock protein 70kDa gene family including Hsp70, Hsc70, Grp 78 and following heat shock, Hsp72.
Form	Liquid
Conjugation	RPE
Purification	Protein G purification
Isotype	IgG1
Recommend Usage	Western Blot (1:1000) Immunofluorescence (1:500) Immunoprecipitation (1 ug) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)

Storage Instruction

Store at 4°C.
Aliquot to avoid repeated freezing and thawing.

Note

Application Data with Unconjugated Antibody
Western Blot (Tissue lysate)
Western blot analysis of rat skeletal muscle tissue with HSPA1A monoclonal antibody, clone 5A5 (C at # MAB11390).

Applications

- Western Blot (Tissue lysate)
- Immunohistochemistry
- Immunocytochemistry
- Immunofluorescence
- Immunoprecipitation

Gene Info — HSPA1A

Entrez GeneID[3303](#)**Protein Accession#**[NP_005336.3](#)**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 conjunction 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

Pathway

- [Antigen processing and presentation](#)
- [Endocytosis](#)
- [MAPK signaling pathway](#)
- [Prion diseases](#)

Disease

- [Abortion](#)
- [Altitude Sickness](#)
- [Alzheimer disease](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Accident](#)
- [Cognition](#)
- [Connective Tissue Diseases](#)
- [Constriction](#)
- [Coronary Disease](#)
- [Dementia](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)

- [Drug Hypersensitivity](#)
- [Duodenal Ulcer](#)
- [Edema](#)
- [Epidermal Necrolysis](#)
- [Exanthema](#)
- [Fetal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Hearing](#)
- [Hearing Loss](#)
- [Helicobacter Infections](#)
- [Hypertension](#)
- [Infection](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Leprosy](#)
- [Lupus Erythematosus](#)
- [Meniere Disease](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Musculoskeletal Diseases](#)
- [Neoplasms](#)
- [Obesity](#)
- [Optic Nerve Diseases](#)
- [Osteoporosis](#)
- [Parkinson disease](#)

- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Psychiatric Status Rating Scales](#)
- [Psychometrics](#)
- [Pulmonary Disease](#)
- [Pulmonary Edema](#)
- [Recurrence](#)
- [Sarcoidosis](#)
- [Schizophrenia](#)
- [Shock](#)
- [Skin Diseases](#)
- [Spondylarthropathies](#)
- [Spondylitis](#)
- [Stevens-Johnson Syndrome](#)
- [Stomach Neoplasms](#)
- [Stress](#)
- [Stroke](#)
- [Tuberculosis](#)
- [Uveitis](#)