# HSPA1A monoclonal antibody, clone 5A5 (ATTO 390)

Catalog # MAB11391 Size 100 ug

## Applications

### Application Data with Unconjugated Antibody

Western Blot (Tissue lysate)

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

## Specification

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| **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** | ATTO 390 |
| **Extinction Coefficient** | 24,000 |
| **Excitation (Max)** | 390 nm |
| **Emission (Max)** | 479 nm |
| **Purification** | Protein G purification |
| **Isotype** | IgG1 |

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| **Recommend Usage** | Western Blot (1:1000)<br>Immunofluorescence (1:500)<br>Immunoprecipitation (1 ug)<br>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.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Application Data with Unconjugated Antibody<br>Western Blot (Tissue lysate)<br>Western blot analysis of rat skeletal muscle tissue with HSPA1A monoclonal antibody, clone 5A5 (C at # MAB11390). |

## Applications

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

## Gene Info — HSPA1A

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|---|---|
| **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 |

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|---|---|
| **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 |

## 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

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- 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

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- 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

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