HSPA1A monoclonal antibody, clone 5A5 (ATTO 488)

Catalog # MAB11392 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

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 488
Extinction Coefficient	90,000
Excitation (Max)	501 nm
Emission (Max)	523 nm
Purification	Protein G purification
Isotype	IgG1

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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

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

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

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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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