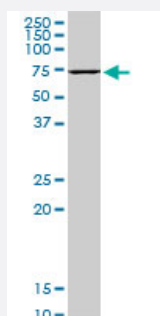


HSPA1B monoclonal antibody (M05), clone 2D11

Catalog # H00003304-M05

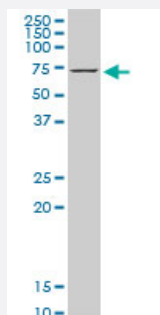
Size 100 ug

Applications



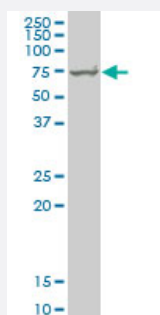
Western Blot (Cell lysate)

HSPA1B monoclonal antibody (M05), clone 2D11. Western Blot analysis of HSPA1B expression in NIH/3T3 (Cat # L018V1).



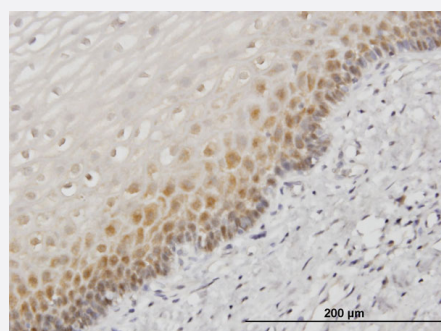
Western Blot (Cell lysate)

HSPA1B monoclonal antibody (M05), clone 2D11. Western Blot analysis of HSPA1B expression in PC-12 (Cat # L012V1).



Western Blot (Cell lysate)

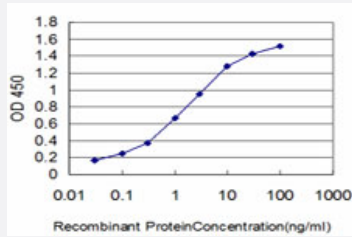
HSPA1B monoclonal antibody (M05), clone 2D11 Western Blot analysis of HSPA1B expression in Hela S3 NE (Cat # L013V3).



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

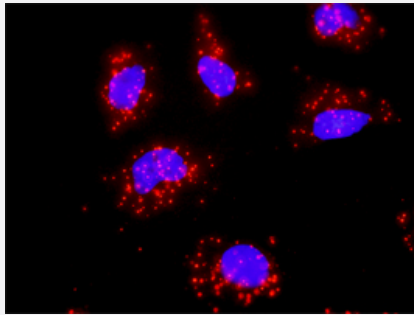
Immunoperoxidase of monoclonal antibody to HSPA1B on formalin-fixed paraffin-embedded human esophagus. [antibody concentration 3 ug/ml]

Sandwich ELISA (Recombinant protein)

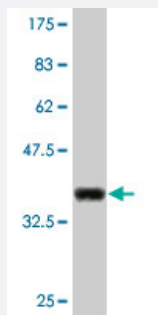


Detection limit for recombinant GST tagged HSPA1B is approximately 0.03ng/ml as a capture antibody.

In situ Proximity Ligation Assay (Cell)



Proximity Ligation Analysis of protein-protein interactions between EGFR and HSPA1B. HeLa cells were stained with anti-EGFR rabbit purified polyclonal 1:1200 and anti-HSPA1B mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (34.65 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant HSPA1B.
Immunogen	HSPA1B (NP_005336, 531 a.a. ~ 611 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VQRERSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEH KRKELEQVCNPIISGLY
Host	Mouse
Reactivity	Human, Mouse, Rat
Interspecies Antigen Sequence	Mouse (88); Rat (93)
Isotype	IgG2a Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (34.65 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

HSPA1B monoclonal antibody (M05), clone 2D11. Western Blot analysis of HSPA1B expression in NIH/3T3(Cat # L018V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

HSPA1B monoclonal antibody (M05), clone 2D11. Western Blot analysis of HSPA1B expression in PC-12(Cat # L012V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

HSPA1B monoclonal antibody (M05), clone 2D11 Western Blot analysis of HSPA1B expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to HSPA1B on formalin-fixed paraffin-embedded human esophagus. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HSPA1B is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- *In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between EGFR and HSPA1B. HeLa cells were stained with anti-EGFR rabbit purified polyclonal 1:1200 and anti-HSPA1B mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — HSPA1B

Entrez GeneID [3304](#)

GeneBank Accession# [NM_005345](#)

Protein Accession# [NP_005336](#)

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 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 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](#)
- [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](#)
- [Parkinson disease](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
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- [Recurrence](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sepsis](#)
- [Shock](#)
- [Skin Diseases](#)
- [Spondylarthropathies](#)
- [Stomach Neoplasms](#)
- [Streptococcal Infections](#)
- [Stroke](#)
- [Systemic Inflammatory Response Syndrome](#)
- [Thyroiditis](#)
- [Urinary Tract Infections](#)
- [Ventricular Dysfunction](#)