Anti-Hsp70 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M014545

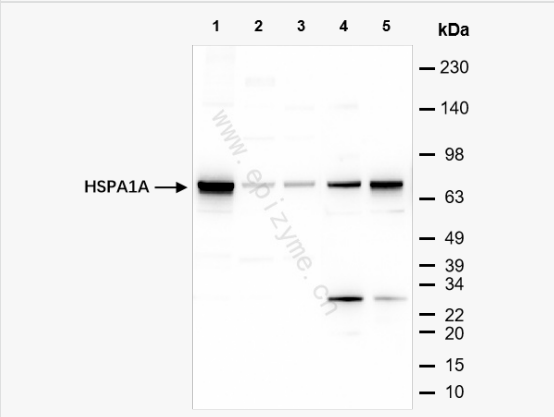
Product Information

Application	WB, ELISA, IF (Cell)/ICC
Reactivity	Human, Mouse (Cell), Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	72Q64C01
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human HSPA1A
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20℃. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20℃ storage.
Precautions	Anti-Hsp70 Mouse mAb [72Q64C01] is for research use only and not for use in diagnostic or therapeutic procedures.

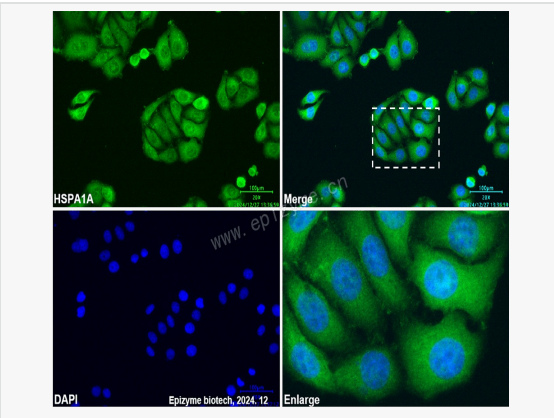
Protein Information

Synonyms	DnaK type molecular chaperone HSP70 1, Epididymis secretory protein Li 103, FLJ54303, FLJ54370, FLJ54392, FLJ54408, FLJ75127, Heat shock 70 kDa protein 1, Heat shock 70 kDa protein 1/2, Heat shock 70 kDa protein 1A, Heat shock 70 kDa protein 1A/1B, Heat shock 70kDa protein 1B, Heat shock induced protein, HEL S 103, HSP70 1, HSP70 1A, HSP70 1B, HSP70 2, HSP70-1, HSP70-1/HSP70-2, HSP70-1A, HSP70-2, HSP70.1, HSP70.1/HSP70.2, HSP71_HUMAN, HSP72, HSPA1, HSPA1A, HSPA1B.
Calculated MW	Calculated MW: 70 kDa; Observed MW: 70 kDa
Uniprot ID	P0DMV8
Gene ID	3303, 3304
Background	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

Validation Images



Western Blot - Anti-HSPA1A Mouse mAb [72Q64C01]
All lanes: M014545 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 3: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 4: Rat spleen whole tissue lysates
Lane 5: Mouse small intestine whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Predicted band size: 70 kDa
Observed band size: 70 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-HSPA1A Mouse mAb [72Q64C01]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibody: M014545 at 1:100 dilution
Secondary antibody: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green)
Nuclei were stained with DAPI (shown in blue).