

HSP60 Monoclonal Antibody (4B9/89)

Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Rat, Non-human primate, Bacteria, Human, Mouse
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	4B9/89
Conjugate	Unconjugated
Immunogen	Human placental HSP60.
Form	Lyophilized
Concentration	1 mg/mL
Purification	Protein A
Contains	no preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2121466

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:1,000	9 Publications
Immunohistochemistry (IHC)	1:200	1 Publication
Immunocytochemistry (ICC/IF)	1:50-1:60	2 Publications
Flow Cytometry (Flow)	1-20 µg/mL	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	2 µg	-
Neutralization (Neu)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

MA3-012 detects heat shock protein 60 kDa (HSP60) from human, mouse, rat, and primate cells, tissues and recombinant protein preparations.

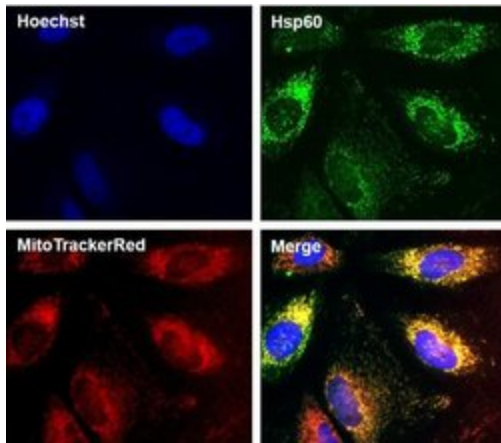
MA3-012 has been successfully used in Western blot, flow cytometry, immunocytochemistry and ELISA procedures. By Western blot, this antibody detects a single 58 kDa protein representing HSP60 from human blood samples. Immunocytochemical staining of HSP60 in B-SC-1 cells with MA3-012 yields a pattern consistent with the mitochondrial localization of HSP60.

The MA3-012 antigen is human placental HSP60. Epitope mapping studies using human HSP60 deletion mutants suggest that this antibody binds either between amino acids 335-366 or 484-547.

Antibodies to this protein (and modification) were previously sold as part of a Thermo Scientific Cellomics High Content Screening

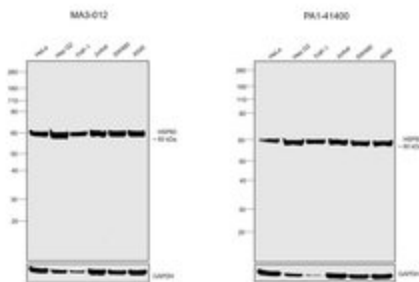
Kit. This replacement antibody is now recommended for researchers who need an antibody for high content cell based assays. It has been thoroughly tested and validated for cellular immunofluorescence (IF) applications. Further optimization including the selection of the most appropriate fluorescent Dylight conjugated secondary antibody may have to be performed for your high content assay.

Reconstitute in 100 μ L PBS to create a stock of 1 mg/mL.



HSP60 Antibody (MA3-012)

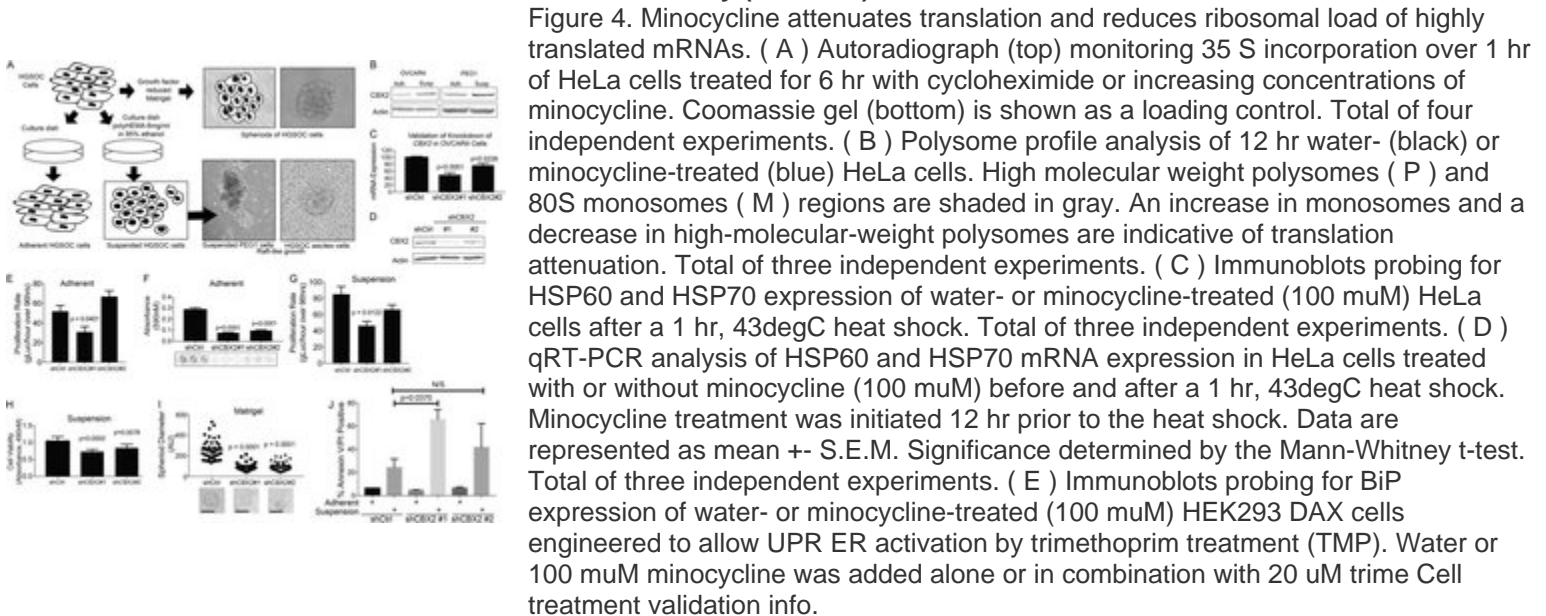
The specificity of anti-HSP60 antibody (Product # MA3-012) was demonstrated by the immunofluorescence detection of HSP60 (green) co-localization with mitochondria stained with MitoTracker® Red CMXRos (Product # M7512) in HeLa cells. Orthogonal method validation info.



HSP60 Antibody (MA3-012)

Antibody specificity was demonstrated by showing that antibodies raised against the same target protein perform similarly. Western blot of HSP60 using HSP60 Monoclonal Antibody (4B9/89) (Product # MA3-012) along with another HSP60 Polyclonal Antibody (Product # PA1-41400) shows similar expression of HSP60. Independent antibody validation info.

HSP60 Antibody (MA3-012)



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14 References

Western Blot (9)

Circulation

The Role of Nonglycolytic Glucose Metabolism in Myocardial Recovery Upon Mechanical Unloading and Circulatory Support in Chronic Heart Failure.

"MA3-012 was used in Western Blotting to provide further insights into mechanisms responsible for the beneficial effect of glycolysis induction during the recovery of failing human hearts after mechanical unloading."

Authors: Badolia R,Ramadurai DKA,Abel ED,Ferrin P,Taleb I,Shankar TS,Krokidi AT,Navankasattusas S,McKellar SH, Yin M,Kfoury AG,Wever-Pinzon O,Fang JC,Seizman CH,Chaudhuri D,Rutter J,Drakos SG

Species
Human

Dilution
Not Cited

Year
2020

Journal of proteome research

A Study into the ADP-Ribosylome of IFN--Stimulated THP-1 Human Macrophage-like Cells Identifies ARTD8/PARP14 and ARTD9/PARP9 ADP-Ribosylation.

"MA3-012 was used in Western Blotting to identify interferon--induced ADP-ribosylation substrates in macrophages."

Authors: Higashi H,Maejima T,Lee LH,Yamazaki Y,Hottiger MO,Singh SA,Aikawa M

Species
Human

Dilution
1:1,000

Year
2019

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Immunohistochemistry (1)

Experimental cell research

Immunoelectron microscopic localization of the 60-kDa heat shock chaperonin protein (Hsp60) in mammalian cells.

"MA3-012 was used in immunohistochemistry to investigate the localization of the 60-kDa heat shock chaperonin protein"

Authors: Soltys BJ,Gupta RS

Species
Non-human primate

Dilution
Not Cited

Year
1996

Immunocytochemistry (2)

Nature communications

Multiplexed 3D super-resolution imaging of whole cells using spinning disk confocal microscopy and DNA-PAINT.

"MA3-012 was used in Immunocytochemistry to combine 3D DNA points accumulation for imaging in nanoscale topography with spinning disk confocal hardware to remove the requirement of complex hardware for single-molecule localisation microscopy in thick samples."

Authors: Schueder F,Lara-Gutiérrez J,Beliveau BJ,Saka SK,Sasaki HM,Woehrstein JB,Strauss MT,Grabmayr H,Yin P, Jungmann R

Species
Human

Dilution
1:100

Year
2017

More applications with references on thermofisher.com

[Neu \(1\)](#) [Misc \(1\)](#)

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