

HSP60 Monoclonal Antibody (2E1/53)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Rabbit, Human
Host/Isotype	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	2E1/53
Conjugate	Unconjugated
Immunogen	Human placental HSP60.
Form	Lyophilized
Concentration	1 mg/mL
Purification	purified
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325461

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-10 µg/mL	-
Immunocytochemistry (ICC/IF)	1:20-1:200	-
ELISA (ELISA)	1-10 µg/mL	-
Immunoprecipitation (IP)	2 µg	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

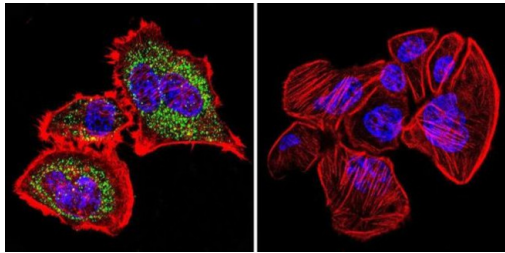
MA3-013 detects HSP60 from human, monkey, mouse, and rat samples. This antibody displays no other protein reactivity.

MA3-013 has been successfully used in Western blot, immunoprecipitation, immunohistochemistry, immunofluorescence, and ELISA procedures. By Western blot, this antibody detects a single 58 kDa protein representing recombinant human HSP60.

The MA3-013 antigen is human placental HSP60. Epitope mapping studies using human HSP60 deletion mutants suggest that this antibody binds between amino acids 211-288.

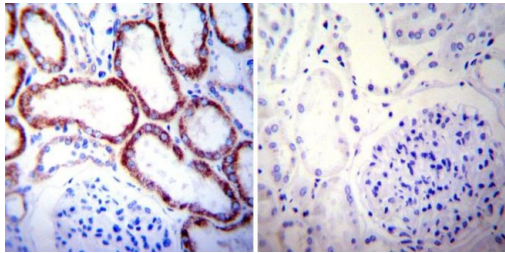
Reconstitute with PBS.

Product Images For HSP60 Monoclonal Antibody (2E1/53)



HSP60 Antibody (MA3-013) in ICC/IF

Immunofluorescent analysis of Heat Shock Protein 60 (Hsp60) in U251 Cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a Heat Shock Protein 60 (Hsp60) monoclonal antibody (Product # MA3-013) at a dilution of 1:200 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35503). Heat Shock Protein 60 (Hsp60) staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.

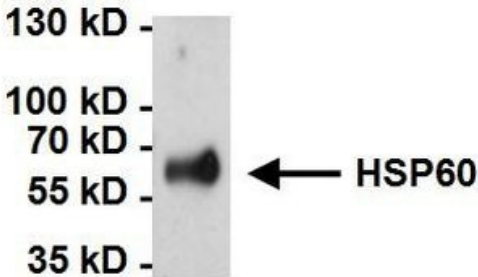


HSP60 Antibody (MA3-013) in IHC (P)

Immunohistochemistry was performed on normal deparaffinized Human kidney tissue tissues. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:100 with a mouse monoclonal antibody recognizing Heat Shock Protein 60 (Product # MA3-013) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

HSP60 Antibody (MA3-013) in IP

Immunoprecipitation of Heat Shock Protein 60 (HSP60) was performed on HeLa cells. Antigen-antibody complexes were formed by incubating 500 µg of whole cell lysate with 2 µg of a HSP60 monoclonal antibody (Product # MA3-013) overnight on a rocking platform at 4°C. The immune complexes were captured on 50 µL Protein A/G Plus Agarose (Product # 20423), washed extensively, and eluted with 5X Lane Marker Reducing Sample Buffer (Product # 39000). Samples were resolved on a 4-20% Tris-HCl polyacrylamide gel, transferred to a PVDF membrane, and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a HSP60 monoclonal antibody (Product # MA3-013) at a concentration of 1 µg/mL overnight rotating at 4°C, washed in TBST, and probed with a goat anti-mouse IgM secondary antibody (Product # 31440) at a dilution of 1:20,000 for at least 1 hour. Chemiluminescent detection performed using SuperSignal West Dura (Product # 34075).



View more figures on thermofisher.com

Western Blot (2)

International journal of molecular sciences Cardiac Alarmins as Residual Risk Markers of Atherosclerosis under Hypolipidemic Therapy. "MA3-013 was used in Western Blotting to highlight the discriminating potential of alarmins in hyperlipidemia or following hypolipidemic treatment." Authors: Suica VI,Uyy E,Ivan L,Boteanu RM,Cerveanu-Hogas A,Hansen R,Antohe F	Year 2022 Species Rabbit
Cell stress & chaperones An inventory of interactors of the human HSP60/HSP10 chaperonin in the mitochondrial matrix space. "MA3-013 was used in Western Blotting to present the first survey of interactors of the human mitochondrial HSP60 /HSP10 chaperonin." Authors: Bie AS,Cömert C,Körner R,Corydon TJ,Palmfeldt J,Hipp MS,Hartl FU,Bross P	Year 2020 Species Human

Miscellaneous PubMed (1)

Molecular and cellular biology Primary structure of a human mitochondrial protein homologous to the bacterial and plant chaperonins and to the 65-kilodalton mycobacterial antigen. "MA3-013 was used in western blot to clone and characterize human hsp60" Authors: Jindal S,Dudani AK,Singh B,Harley CB,Gupta RS	Year 1989
--	----------------------

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.