

## Anti-Hsp60 Antibody

Catalog Number: M01280-4

### About HSPD1

Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix.

### Overview

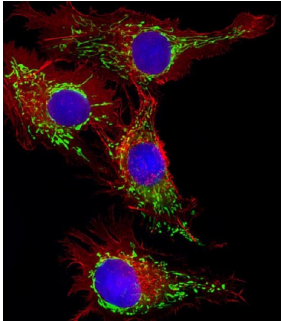
Product Name	Anti-Hsp60 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Hsp60 Antibody (Catalog # M01280-4). Tested in WB, Flow Cytometry, IHC-P, IF application(s). This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P10809

### Technical Details

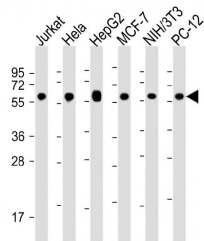
Immunogen	This Hsp60 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 396-430 amino acids from human Hsp60.
Predicted Reactive Species	Bovine, Chicken, Hamster
Isotype	Rabbit IgG
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: IF: 1:25 WB: 1:16000 IHC-P: 1:25

	FC: 1:25
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## Anti-Hsp60 Antibody (M01280-4) Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 (human liver hepatocellular carcinoma cell line) cells labeling Hsp60 with M01280-4 at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on HepG2 cell line. The nuclear counter stain is DAPI (blue).



All lanes : Anti-Hsp60 Antibody at 1:16000 dilution

Lane 1: Jurkat whole cell lysate

Lane 2: Hela whole cell lysate

Lane 3: HepG2 whole cell lysate

Lane 4: MCF-7 whole cell lysate

Lane 5: NIH/3T3 whole cell lysate

Lane 6: PC-12 whole cell lysate

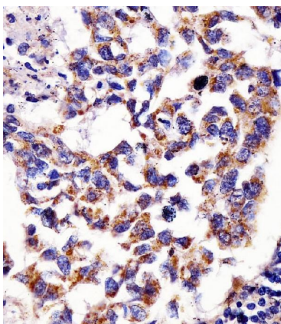
Lysates/proteins at 20 µg per lane.

Secondary

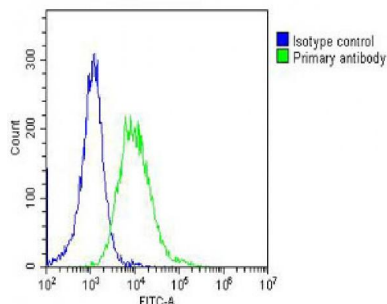
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.

Predicted band size : 61 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



M01280-4 staining Hsp60 in human lung adenocarcinoma tissue sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing HeLa cells stained with M01280-4 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (M01280-4, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

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