HSP60 Mouse mAb-BSA and Azide free

Catalog No: #62261

Package Size: #62261-1 50ul #62261-2 100ul

Signalway Antibody
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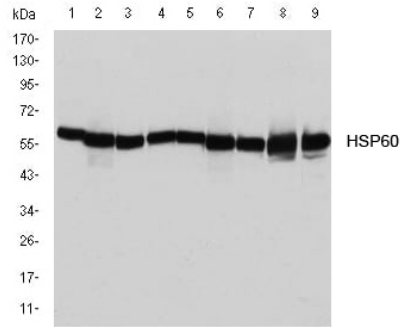
Description

Product Name	HSP60 Mouse mAb-BSA and Azide free
Host Species	Mouse
Clonality	Monoclonal
Clone No.	MR4529
Isotype	Mouse IgG1
Applications	WB,IHC,IF,FC,ELISA
Species Reactivity	Human,Mouse,Rat,Monkey
Immunogen Description	Purified recombinant fragment of human HSP60 expressed in E. Coli.
Target Name	HSP60
Other Names	HLD4; CPN60; GROEL; HSP60; HSP65; SPG13; HSP-60; HuCHA60; HSPD1
Calculated MW	61kD
SDS-PAGE MW	65kDa
Formulation	Purified antibody in PBS
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

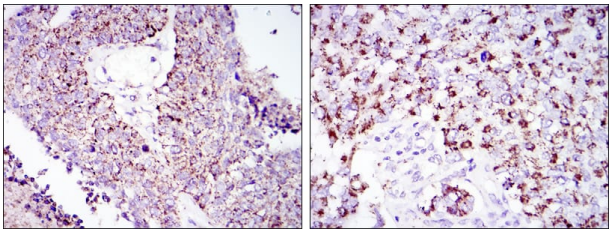
Application Details

WB 1:500-1:2000 IHC 1:200-1:1000 IF 1:100-1:200 FCM 1:200-1:400 ELISA 1:10000

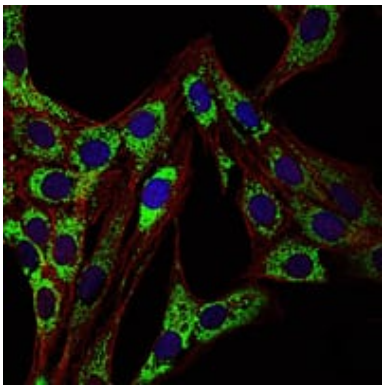
Images



All lanes : HSP60 Mouse mAb-BSA and Azide free at 1/1k dilution Lane 1 : T47D whole cell lysates Lane 2 : Hela whole cell lysates Lane 3 : HepG2 whole cell lysates Lane 4 : A549 whole cell lysates Lane 5 : Jurkat whole cell lysates Lane 6 : HEK293 whole cell lysates Lane 7 : NIH/3T3 whole cell lysates Lane 8 : PC-12 whole cell lysates Lane 9 : Cos7 whole cell lysates Lysates/proteins at 20 µg per lane. All lanes : Goat Anti-Mouse IgG H&L (HRP) at 1/20000 dilution Predicted band size: 61 kDa Observed band size: 65 kDa Exposure time: 5 seconds

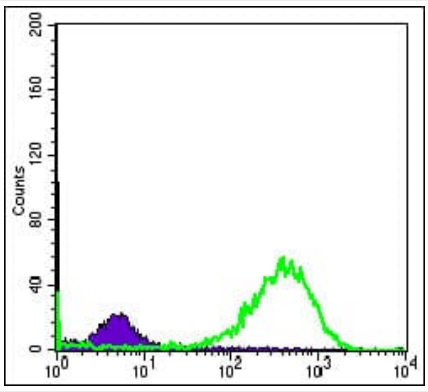


Formalin-fixed, paraffin-embedded human lung cancer tissues (left) and kidney cancer tissues (right) stained for HSP60 using 62261 at 1/100 dilution in immunohistochemical analysis.

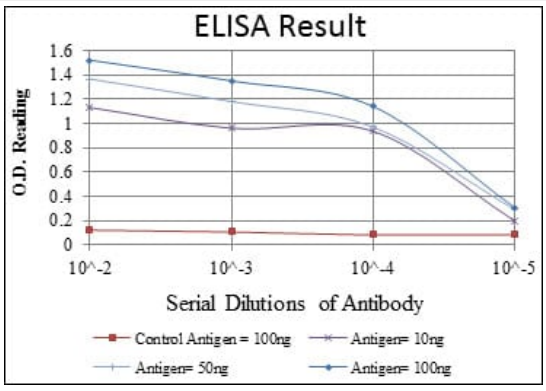


Immunocytochemistry/ Immunofluorescence HSP60 antibody (62261) ICC/IF staining of HSP60 in 3T3-L1 cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 62261 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti mouse, used at a dilution of 1/500. Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Nuclei were counterstained with DRAQ5 fluorescent DNA dye.



Flow Cytometry Calreticulin antibody (62261) Flow cytometric analysis of Hela cells with HSP60 Mouse mAb at 1/50 dilution (green) compared with an unlabelled control (cells without incubation with primary antibodyo purple).



Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng)

Background

Chaperonin implicated in mitochondrial protein import and macromolecular assembly. Together with Hsp10, facilitates 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 (PubMed:11422376, PubMed:1346131).

The functional units of these chaperonins consist of heptameric rings of the large subunit Hsp60, which function as a back-to-back double ring. In a cyclic reaction, Hsp60 ring complexes bind one unfolded substrate protein per ring, followed by the binding of ATP and association with 2 heptameric rings of the co-chaperonin Hsp10. This leads to sequestration of the substrate protein in the inner cavity of Hsp60 where, for a certain period of time, it can fold undisturbed by other cell components. Synchronous hydrolysis of ATP in all Hsp60 subunits results in the dissociation of the chaperonin rings

and the release of ADP and the folded substrate protein (Probable)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.