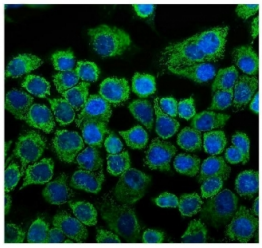
HSP60 Antibody / HSPD1 (R30272)

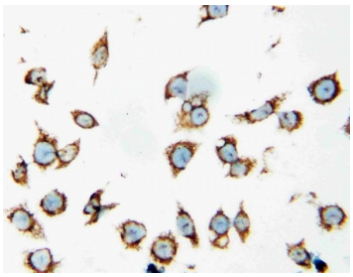
Catalog No.	Formulation	Size
R30272	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

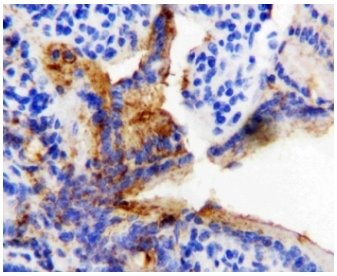
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P63039
Localization	Cytoplasm (mitochondria)
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence: 5ug/ml Immunocytochemistry: 1-2ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This HSP60 antibody is available for research use only.



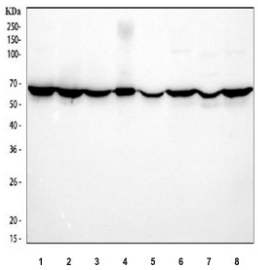
Immunofluorescent staining of FFPE human A431 cells with HSP60 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



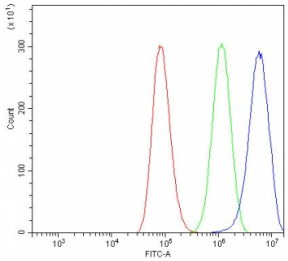
ICC staining of human SMMC-7721 cells with HSP60 antibody.



IHC staining of FFPE rat intestine tissue with HSP60 antibody. HIER: boil tissue sections in pH6 citrate buffer for 20 min and allow to cool before testing.



Western blot testing of 1) human HepG2, 2) human HeLa, 3) human A549, 4) human PC-3, 5) rat lung, 6) rat liver, 7) mouse lung and 8) mouse liver tissue lysate with HSP60 antibody. Predicted molecular weight ~60 kDa.



Flow cytometry testing of fixed and permeabilized human A549 cells with HSP60 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HSP60 antibody.

Description

Heat shock 60KD protein is a member of the chaperonin class of protein factors and the nuclear encoded mitochondrial HSP60 is required for the assembly into oligomeric complexes of proteins imported into the mitochondrial matrix. HSP60 is linked head to head comprising approximately 17 kb and consist of 12 exons. It can downregulate adaptive immune responses by upregulating Tregs innately throughTLR2signaling.

For a recombinant, Protein Microarray Validated option with broad mammalian species validation, see our HSP60 Antibody / Heat Shock Protein 60 Antibody page.

Application Notes

Variations in secondary/substrate sensitivities and test protocols may require the HSP60 antibody to be titrated for optimal performance.

Immunogen

An amino acid sequence from the C-terminus of rat HSP60 (YDAMLGDFVNMVEK) was used as the immunogen for this HSP60 antibody.

Storage

The lyophilized HSP60 antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freeze/thaws.

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