

Rabbit HSP60 Polyclonal Antibody | anti-HSPD1 antibody

Anti-HSP60 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45054	Rabbit	Human, Mouse, Rat	Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

HSP60; Polyclonal Antibody; Anti-HSP60 antibody; 60 kDa heat shock protein; mitochondrial; heat shock 60kDa protein 1(chaperonin); 60 kDa chaperonin antibody; 60 kDa heat shock protein mitochondrial antibody; mitochondrial antibody; CH60_HUMAN antibody; Chaperonin 60 antibody; Chaperonin antibody; Chaperonin; 60-KD antibody; CPN 60 antibody; CPN60 antibody; fa04a05 antibody; GROEL antibody; GroEL Homolog antibody; Heat shock 60kD protein 1 chaperonin antibody; Heat shock 60kDa protein 1 antibody; Heat shock protein 1(chaperonin) antibody; Heat Shock Protein 60 antibody; Heat shock protein 65 antibody; HLD4 antibody; Hsp 60 antibody; HSP 65 antibody; HSP-60 antibody; HSP60 antibody; HSP65 antibody; HSPD 1 antibody; HSPD1 antibody; HuCHA60 antibody; Mitochondrial matrix protein P1 antibody; P60 lymphocyte protein antibody; Short heat shock protein 60 Hsp60s1 antibody; Spastic paraplegia 13 antibody; SPG 13 antibody; SPG13 antibody; anti-HSPD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	573
Applicable Applications for anti-HSPD1 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of rat HSP60 (503-516aa YDAMLGDFVNMVEK), different from the related human sequence by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES


ICC (Immunocytochemistry)

Anti-HSP60 antibody, AAA45054, ICCICC: SMMC Cell


IHC (Immunohistochemistry)

Anti-HSP60 antibody, AAA45054, IHC(P)IHC(P): Rat Intestine Tissue



WB (Western Blot)

Anti-HSP60 antibody, AAA45054, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Liver Tissue LysateLane 3: CEM Cell LysateLane 4: HELA Cell LysateLane 5: SMMC Cell LysateLane 6: COLO320 Cell Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-HSPD1 antibody	Description: Rabbit IgG polyclonal antibody for 60 kDa heat shock protein, mitochondrial(HSPD1) detection. Tested with WB, IHC-P, ICC in Human, Mouse, Rat. Background: HSP60 is a member of the chaperonin class of protein factors, which include the Escherichia coli groEL protein and the Rubisco subunit-binding protein of chloroplasts. It acts as a costimulator of human regulatory CD4-positive/CD25 -positive T cells, which inhibit lymphoproliferation and IFNG and TNF secretion by CD4-positive and CD8-positive T cells. HSP60 enhances Treg activity via TLR2, leading to activation of an intracellular signaling cascade that included p38, as well as inhibition of ERK phosphorylation. Suppression of target T cells is mediated by both cell-to-cell contact and by secretion of TGFB and IL10, and it leads to downregulation of ERK, NFkB, and TBET expression. The self-molecule HSP60 can downregulate adaptive immune responses by upregulating Tregs through TLR2 signaling.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	51702230
NCBI GeneID	63868
UniProt Accession #	P63039; P19226; P19227; P97602
Molecular Weight	60,955 Da
NCBI Official Full Name	60 kDa heat shock protein, mitochondrial
NCBI Official Synonym Full Names	heat shock protein 1 (chaperonin)
NCBI Official Symbol	Hspd1
NCBI Official Synonym Symbols	Hsp60; Hspd1-30p
NCBI Protein Information	60 kDa heat shock protein, mitochondrial; CPN60; HSP-60; HSP-65; chaperonin 60; 60 kDa chaperonin; heat shock 60kDa protein 1; heat shock protein 60 (liver); mitochondrial matrix protein P1; heat shock 60kD protein 1 (chaperonin)
UniProt Protein Name	60 kDa heat shock protein, mitochondrial
UniProt Gene Name	Hspd1
UniProt Synonym Gene Names	Hsp60; CPN60; HSP-60; Hsp60
UniProt Entry Name	CH60_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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