

Hsp60 Polyclonal Antibody | anti-Hsp60 antibody

Anti-Hsp60 Antibody

CATALOG # AAA46392	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunocytochemistry, Immunohistochemistry, Western Blot
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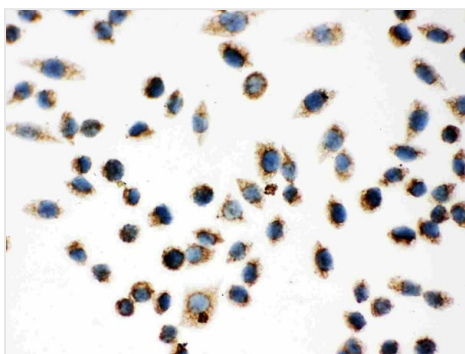
PRODUCT SYNONYMS

Hsp60; Polyclonal Antibody; Anti-Hsp60 Antibody; 60 kDa heat shock protein; 60 kDa chaperonin; mitochondrial; 60kDa; cb863; CH60_HUMAN; Chaperonin 60; Chaperonin; 60-KD; CPN60; GROEL; GroEL; E. coli; homolog of; Heat shock 60kD protein 1 (chaperonin); heat shock 60kDa protein 1 (chaperonin); Heat shock 60kDa protein 1; Heat shock protein 1 (chaperonin); Heat shock protein 60; Heat shock protein 65; HLD4; Hsp 60; HSP 65; HSP-60; HSP60; HSP65; HSPD1; HuCHA60; Mitochondrial matrix protein P1; P60 lymphocyte protein; Short heat shock protein 60 Hsp60s1; Spastic paraplegia 13 (autosomal dominant); SPG13; anti-Hsp60 antibody

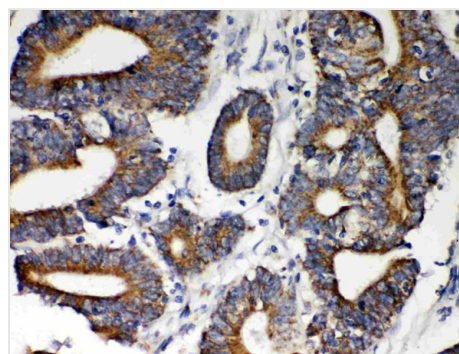
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	573
Applicable Applications for anti-Hsp60 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Hsp60 recombinant protein (Position: A260-Q496). Human Hsp60 shares 97% amino acid (aa) sequence identity with both mouse and rat Hsp60.
Ig Type	Rabbit IgG
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 aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

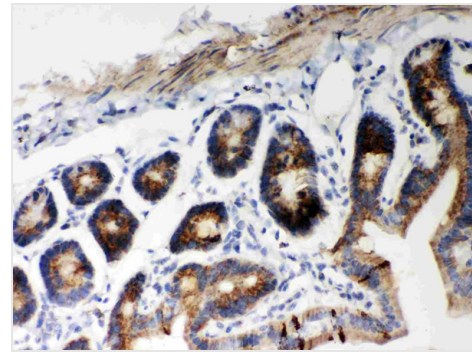
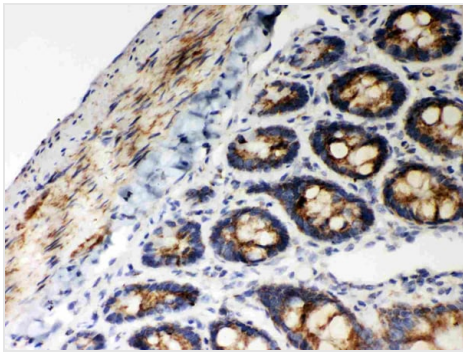
IMAGES



ICC (Immunocytochemistry)
Anti- Hsp60 Picoband antibody, AAA46392, ICCICC: SMMC-7721 Cell

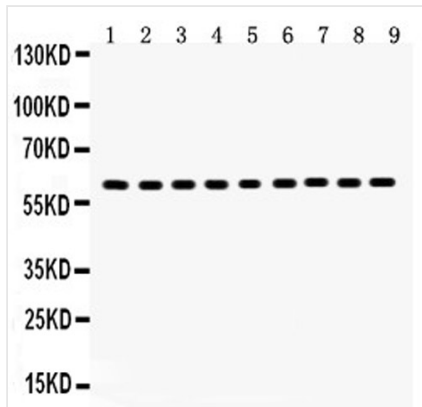


IHC (Immunohistochemistry)
Anti- Hsp60 Picoband antibody, AAA46392, IHC(P)IHC(P): Human Intestinal Cancer Tissue



IHC (Immunohistochemistry)
Anti- Hsp60 Picoband antibody, AAA46392, IHC(P)IHC(P): Rat Intestine Tissue

IHC (Immunohistochemistry)
Anti- Hsp60 Picoband antibody, AAA46392, IHC(P)IHC(P): Mouse Intestine Tissue



WB (Western Blot)
Anti- Hsp60 Picoband antibody, AAA46392, Western blottingAll lanes: Anti Hsp60 (AAA46392) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Mouse Kidney Tissue Lysate at 50ugLane 3: HEPA Whole Cell Lysate at 40ugLane 4: NRK Whole Cell Lysate at 40ugLane 5: PC-12 Whole Cell Lysate at 40ugLane 6: SW620 Whole Cell Lysate at 40ugLane 7: A549 Whole Cell Lysate at 40ugLane 8: A431 Whole Cell Lysate at 40ugLane 9: HELA Whole Cell Lysate at 40ugPredicted bind size: 60KDObserved bind size: 60KD

ADDITIONAL INFORMATION

Related Product Information for anti-Hsp60 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.
References	1. Cheng, M. Y.; Hartl, F.-U.; Martin, J.; Pollock, R. A.; Kalousek, F.; Neupert, W.; Hallberg, E. M.; Hallberg, R. L.; Horwich, A. L. : Mitochondrial heat-shock protein hsp60 is essential for assembly of proteins imported into yeast mitochondria. Nature 337: 620-625, 1989. 2. Zanin-Zhorov, A.; Cahalon, L.; Tal, G.; Margalit, R.; Lider, O.; Cohen, I. R. : Heat shock protein 60 enhances CD4+CD25+ regulatory T cell function via innate TLR2 signaling. J. Clin. Invest. 116: 2022-2032, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31542947
NCBI GeneID	3329
NCBI Accession #	NP_002147.2

NCBI GenBank Nucleotide #	NM_002156.4
UniProt Accession #	P10809 ; Q38L19 ; Q9UCR6 ; B2R5M6 ; B7Z712
Molecular Weight	17,100 Da
NCBI Official Full Name	60 kDa heat shock protein, mitochondrial
NCBI Official Synonym Full Names	heat shock protein family D (Hsp60) member 1
NCBI Official Symbol	HSPD1
NCBI Official Synonym Symbols	HLD4; CPN60; GROEL; HSP60; HSP65; SPG13; HSP-60; HuCHA60
NCBI Protein Information	60 kDa heat shock protein, mitochondrial
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_HUMAN

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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hsp60-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/46392>