

Mouse anti-Human, mouse Heat shock protein 60, HSP60 Monoclonal Antibody | anti-HSP60 antibody

Anti-Heat shock protein 60, HSP60 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA58853	Mouse	Human, mouse	Immunocytochemistry, Immunohistochemistry, Western Blot

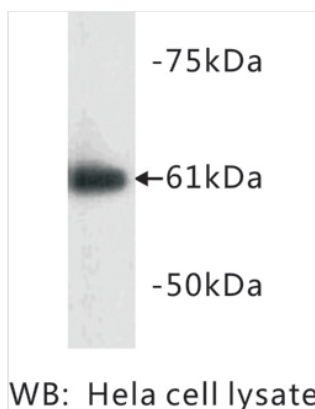
PRODUCT SYNONYMS

Heat shock protein 60; HSP60; Monoclonal Antibody; Anti-Heat shock protein 60; HSP60 antibody; Monoclonal Anti- Heat shock protein 60; anti-HSP60 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	H6-2
Purity/Purification	Protein A or Protein G purified
Form/Format	Liquid
Applicable Applications for anti-HSP60 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to the C-terminal of HSP60.
Storage Buffer	In TBS (pH7.4), 0.5% BSA, 40% Glycerol and 0.05% Sodium Azide.
Storage Buffer	In TBS (pH7.4), 0.5% BSA, 40% Glycerol and 0.05% Sodium Azide.
Preparation and Storage	Store at 4 degree C after thawing (1 week). Aliquot and store at -20 degree C for long term (at least one year). Avoid repeated freeze and thaw cycles

IMAGES



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-HSP60 antibody	Heat shock protein 60 (HSP60) in the matrix of mitochondria is essential for the folding and assembly of newly imported proteins. Hsp60 belongs to a class of structurally related chaperonins found in organelles of endosymbiotic origin and in the bacterial cytosol.1 Members of the chaperonin class include the Escherichia coli, groEL protein and the Rubisco subunit-binding protein of chloroplasts.2 In both prokaryotic and eukaryotic systems, synthesis of these proteins is induced in response to stresses, such as heat shock.3 Under normal physiological conditions, HSP60 is a 60 KD oligomer composed of monomers that form a complex arranged as two stacked heptameric rings.1 HSP60 may be a very useful marker for patients with superficial bladder carcinoma and may be used for predicting disease progression. And low HSP60 expression levels may be usable as a prognostic marker to identify patients for whom local treatment would be insufficient.4 HSP60 also linked to diabetes, cancer and certain types of immunological disorders.
References	1. Cheng MY, Hartl FU, Horwich AL (November 1990). "The mitochondrial chaperonin hsp60 is required for its own assembly". Nature 348 (6300): 455-8. 2. 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. 3. Venner, T. J., Singh, B., Gupta, R. S. Nucleotide sequences and novel structural features of human and Chinese hamster hsp60 (chaperonin) gene families. DNA Cell Biol. 9: 545-552, 1990. 4. Lebre T, Watson RW, Molinié V, et al. (September 2003). "Heat shock proteins HSP27, HSP60, HSP70, and HSP90: expression in bladder carcinoma". Cancer 98 (5): 970-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15229559
NCBI GeneID	821983
NCBI Accession #	NP_189041.1
NCBI GenBank Nucleotide #	NM_113304.4
UniProt Accession #	P29197; Q9LIQ8
Molecular Weight	61,281 Da
NCBI Official Full Name	heat shock protein 60
NCBI Official Symbol	HSP60
NCBI Official Synonym Symbols	heat shock protein 60; HEAT SHOCK PROTEIN 60-3B; HSP60; HSP60-3B
NCBI Protein Information	heat shock protein 60
UniProt Protein Name	Chaperonin CPN60, mitochondrial
UniProt Gene Name	CPN60
UniProt Entry Name	CH60A_ARATH

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.