



HSP60 (Heat Shock Protein 60)

Data Sheet

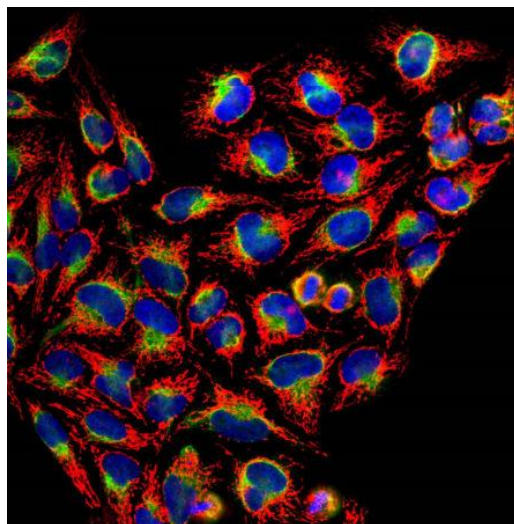
Catalog Number:	RA22149	Host:	Rabbit
Product Type:	Rabbit Polyclonal	Species Reactivity:	Human, Rat, Mouse, Cow, Pig, Horse, Dog, Monkey
Immunogen Sequence:	Recombinant full length human HSP60 expressed in and purified from E. coli	Format:	Supplied as an aliquot of serum plus 5mM NaN3
Applications:	Immunofluorescence: 1:5,000 Immunohistochemistry: 1:5,000 Western Blot: 1:5,000-10,000		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

Application Notes

Description/Data

The heat shock proteins were discovered, as the name suggests, since they are heavily upregulated when cells are stressed by temperatures above the normal physiological range. They are expressed in unstressed cells also and have a normal function as chaperones, helping other proteins to fold correctly. The need for chaperones is much greater if a cell or tissue is stressed by heat, and so these proteins become heavily up regulated.. In addition to its role as a heat shock protein, HSP60 plays an important role in the transport and maintenance of mitochondrial proteins as well as the transmission and replication of mitochondrial DNA. HSP60 has also been implicated in the initiation and/or progression of some subtypes of cardiovascular disease (CVD).

Image: Confocal immunofluorescent analysis of HeLa cells stained with rabbit pAb to HSP60, RA22149, dilution 1:1,000, in red, and costained with chicken pAb to vimentin in green. The blue is DAPI staining of nuclear DNA. The HSP60 antibody gives strong and specific staining of mitochondria while the vimentin antibody reveals cytoplasmic intermediate filaments.



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