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Human HSP60 antibody

Catalog Number: AHS0815

PRODUCT INFORMATION

Catalog number

AHS0815

Clone No.

2E4

Product type

Monoclonal Antibody

UnitProt No.

P10809

NCBI Accession No.

NP 002147

Alternative Names

Heat shock 60kDa protein 1, CPN60, GroEL, HSP65, SPG13, HuCHA60, Heat shock 60kDa protein 1, HSP60, Heat shock 60kDa protein 1 60 kDa chaperonin, GroEL, E, coli, homolog of, 60 kDa heat shock protein mitochondrial, 60kDa, cb863, Chaperonin, Chaperonin 60, Chaperonin, 60-KD, CPN 60, fa04a05, fb22d10, fi27b05, GroEL Homolog, Heat shock 60kD protein 1 (chaperonin), Heat shock 60kD protein 1 (chaperonin), Heat shock Protein 60, Heat shock protein 65, HLD4, HSP 60, HSP 65, HSPD 1, HSPD1, HuCHA60, id:ibd2197, Spastic paraplegia 13 Mitochondrial matrix protein P1, P60 lymphocyte protein, sb:cb144, Short heat shock protein 60 Hsp60s1, Spastic paraplegia 13 (autosomal dominant), SPG 13, wu:fa04a05, wu:fb22d10, wu:fi04a12, wu:fi27b05.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human Hsp60 (1-573aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, IHC



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Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

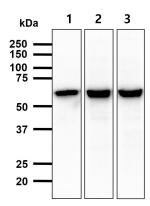
Heat shock protein 60 (HSP60) is a mitochondrial chaperonin that is typically held responsible for the transportation and refolding of proteins from the cytoplasm into the mitochondrial matrix. HSP60 is the \sim 60kDa mammalian equivalent to GroEL of E. coli. Process of HSP60 is regulated by the cochaperonin HSP10, a single heptameric ring of \sim 10kD subunits that forms a complex with HSP60. HSP10 coordinates the ATPase activity of the HSP60 subunits to allow the release of bound polypeptide in a manner productive for folding.

General References

Cheng MY, et al., (1990) Nature. 348:455-8 Ghosh JC, et al., (2008) J Biol Chem. 283(8):5188-94

DATA

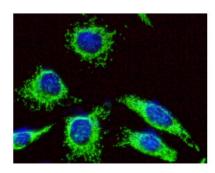
Western blot analysis (WB)



Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Hsp60 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate Lane 2.: HeLa cell lysate Lane 3.: A549 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of Hsp60 in HeLa cells. The cell was stained with AHS0815 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



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Immunohistochemistry (IHC)



Paraffin embedded sections of human colon cancer tissue were incubated with anti-human Hsp60 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)

