

Anti-Hsp60/HSPD1 Antibody Picoband® (monoclonal, 6G2) APC Conjugated

Catalog Number: M01280-3-APC

About HSPD1

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.

Overview

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| Product Name | Anti-Hsp60/HSPD1 Antibody Picoband® (monoclonal, 6G2) APC Conjugated |
| Reactive Species | Human, Mouse, Rat |
| Application | Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Monoclonal 6G2 |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3. |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Mouse |
| Uniprot ID | P10809 |

Technical Details

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| Immunogen | E.coli-derived human Hsp60/HSPD1 recombinant protein (Position: A260-Q496). Human Hsp60 shares 97% amino acid (aa) sequence identity with both mouse and rat Hsp60. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Mouse IgG1 |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |
| Conjugate | APC |

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| | Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users. |

3 Publications Citing This Product

1. PubMed ID: 24735884, Hepatic mitochondrial and ER stress induced by defective PPAR γ signaling in the pathogenesis of hepatic steatosis
2. PubMed ID: 27698781, Expression and location of HSP60 and HSP10 in the heart tissue of heat-stressed rats
3. PubMed ID: 22500017, Hager L, Li L, Pun H, Liu L, Hossain Ma, Maguire Gf, Naples M, Baker C, Magomedova L, Tam J, Adeli K, Cummins Cl, Connelly Pw, Ng Ds. J Biol Chem. 2012 Jun 8;287(24):20755-68. Doi: 10.1074/Jbc.M112.340919. Epub 2012 Apr 12. Lecithin:Cholesterol Ac...

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