

## Anti-Hsp60/HSPD1 Antibody Picoband® Cy3 Conjugated

Catalog Number: PB9337-Cy3

### 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

|                      |  |
|----------------------|--|
| Product Name         | Anti-Hsp60/HSPD1 Antibody Picoband® Cy3 Conjugated   |
| Reactive Species     | Human, Mouse, Rat  |
| Application          | Recommended applications are based on the parent unconjugated antibody (IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal   |
| 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                 | Rabbit   |
| Uniprot ID           | P10809   |

### Technical Details

|                  |   |
|------------------|---|
| 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. |
| Cross Reactivity | No cross-reactivity with other proteins   |
| Isotype          | Rabbit IgG  |
| Form             | Liquid  |
| Concentration    | 0.5 mg/mL   |
| Purification     | Immunogen affinity purified.  |
| Conjugate        | Cy3<br>Excitation Wavelength: 554 nm<br>Emission Wavelength: 568 nm   |

Suggested Dilutions

Optimal dilutions should be determined by end users.

## 7 Publications Citing This Product

1. PubMed ID: , Denatured corona proteins mediate the intracellular bioactivities of nanoparticles via the unfolded protein response
2. PubMed ID: 24735884, Hepatic mitochondrial and ER stress induced by defective PPAR $\gamma$  signaling in the pathogenesis of hepatic steatosis
3. PubMed ID: 27698781, Expression and location of HSP60 and HSP10 in the heart tissue of heat-stressed rats

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