

Anti-Hsp90 alpha/HSP90AA1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9635-Fluoro488

About HSP90AA1

Heat shock protein HSP 90-alpha is a protein that in humans is encoded by the HSP90AA1 gene. The gene, HSP90AA1, encodes the human stress-inducible 90-kDa heat shock protein alpha (Hsp90A). Complemented by the constitutively expressed paralog Hsp90B which shares over 85% amino acid sequence identity, Hsp90A expression is initiated when a cell experiences proteotoxic stress. Once expressed Hsp90A dimers operate as molecular chaperones that bind and fold other proteins into their functional 3-dimensional structures. This molecular chaperoning ability of Hsp90A is driven by a cycle of structural rearrangements fueled by ATP hydrolysis. Current research on Hsp90A focuses in its role as a drug target due to its interaction with a large number of tumor promoting proteins and its role in cellular stress adaptation.

Overview

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| Product Name | Anti-Hsp90 alpha/HSP90AA1 Antibody Picoband® Fluoro488 Conjugated |
| Reactive Species | Human, Monkey, 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 | 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 | P07900 |

Technical Details

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|------------------|---|
| Immunogen | A synthetic peptide corresponding to a sequence at the C-terminus of human Hsp90 alpha, identical to the related mouse and rat sequences. |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |
| Conjugate | Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm |

Suggested Dilutions

Optimal dilutions should be determined by end users.

6 Publications Citing This Product

1. PubMed ID: 10.1007/s10735-021-10027-9, Evaluation by different mechanisms of the protective effects of vitamin B12 on methotrexate nephrotoxicity
2. PubMed ID: 10.1002/jbt.22618, Thymoquinone attenuates doxorubicin-induced cardiotoxicity in rats
3. PubMed ID: -, Biaoxue Rong, Youwen Zhang, Junye Wang et al. Increased STIP1 and Hsp90 Correlate with Progression and Prognosis of Lung Adenocarcinoma, 23 February 2021, PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.3.rs-226260/v1]

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