

Anti-Hsp90 alpha/HSP90AA1 Antibody Picoband® Biotin Conjugated

Catalog Number: PB9635-Biotin

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

Product Name	Anti-Hsp90 alpha/HSP90AA1 Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P07900

Technical Details

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	Biotin
Suggested Dilutions	The intended application should be selected according to the customer's experimental requirements.

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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