

Anti-Hsp90 alpha/HSP90AA1 Antibody

Catalog Number: PA1339

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

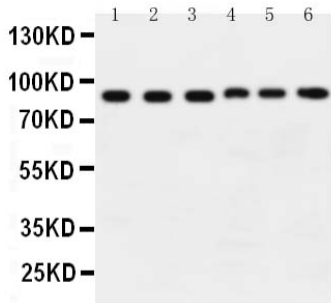
Product Name	Anti-Hsp90 alpha/HSP90AA1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Hsp90 alpha/HSP90AA1 Antibody catalog # PA1339. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal JLT-12
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P07900

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Hsp90 alpha FSLEDPQTHANRIYRMIK), identical to the related mouse and rat sequences.
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

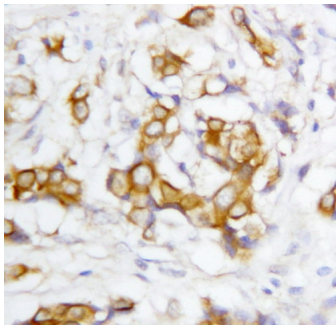
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p>

Anti-Hsp90 alpha/HSP90AA1 Antibody (PA1339) Images



Anti-Hsp90 alpha antibody, PA1339, Western blotting

Lane 1: Rat Testis Tissue Lysate
Lane 2: CCRF-CEM Cell Lysate
Lane 3: HELA Cell Lysate
Lane 4: SMMC Cell Lysate
Lane 5: HT1080 Cell Lysate
Lane 6: COLO320 Cell Lysate



Anti-Hsp90 alpha antibody, PA1339, IHC(P)

IHC(P): Human Mammary Cancer Tissue

2 Publications Citing This Product

1. PubMed ID: 21346199, Jiang Q, Wang Y, Li T, Shi K, Li Z, Ma Y, Li F, Luo H, Yang Y, Xu C. Mol Biol Cell. 2011 Apr 15;22(8):1167-80. Doi: 10.1091/mbc.E10-10-0860. Epub 2011 Feb 23. Heat Shock Protein 90-Mediated Inactivation Of Nuclear Factor- κ B Switches Autophagy To ...

2. PubMed ID: 24368518, The Effect of 5'-Adenylic Acid on Hepatic Proteome of Mice Radiated by 60Co γ -ray

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