Product datasheet

Anti-Hsp90 alpha/HSP90AA1 Antibody

Catalog Number: *BA0369*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Hsp90 alpha/HSP90AA1 Antibody
Gene Name	HSP90AA1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Hsp90 alpha identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	85-100 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

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

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number of tumor promoting proteins and its role in cellular stress adaptation.

Reference

Anti-Hsp90 alpha/HSP90AA1 Antibody被引用在1文献中。

Selected Validation Data

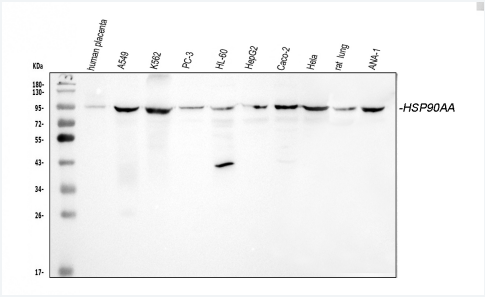

Figure 1. Western blot analysis of anti- HSP90AA1 antibody (BA0369). The sample well of each lane was loaded with 30ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates,
Lane 2: human A549 whole cell lysates,
Lane 3: human K562 whole cell lysates,
Lane 4: human PC-3 whole cell lysates,
Lane 5: human HL-60 whole cell lysates,
Lane 6: human HepG2 whole cell lysates,
Lane 7: human Caco-2 whole cell lysates,
Lane 8: human Hela whole cell lysates,
Lane 9: rat lung tissue lysates,
Lane 10: mouse Ana-1 whole cell lysates.
Use rabbit anti- HSP90AA1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for HSP90AA1 at approximately 90KD. The expected band size for HSP90AA1 is at 85KD.

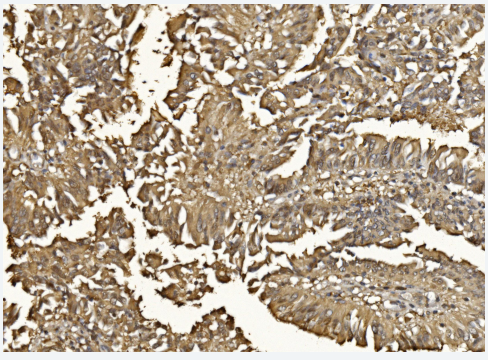

Figure 2. IHC analysis of Hsp90 alpha/HSP90AA1 using anti-Hsp90 alpha/HSP90AA1 antibody (BA0369).
Hsp90 alpha/HSP90AA1 was detected in a paraffin-embedded section of human rectal cancer tissue. The tissue section was incubated with rabbit anti-Hsp90 alpha/HSP90AA1 Antibody (BA0369) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1022) as the chromogen.

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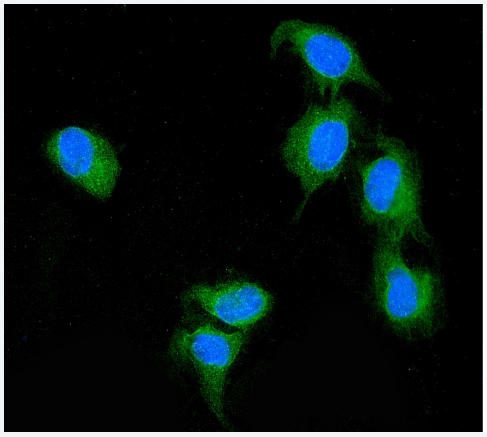

Figure 3. IF analysis of Hsp90 alpha/HSP90AA1 using anti-Hsp90 alpha/HSP90AA1 antibody (BA0369).
Hsp90 alpha/HSP90AA1 was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-Hsp90 alpha/HSP90AA1 Antibody (BA0369) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

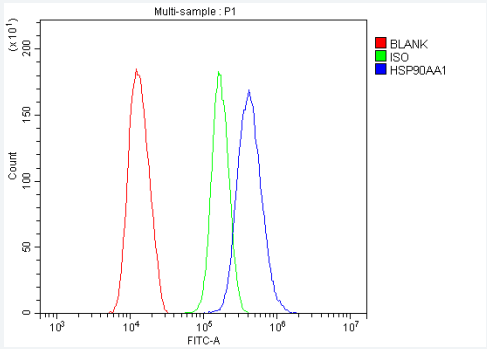

Figure 4. Flow cytometry analysis of SiHa cell (1:100) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).