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Anti-Hsp90 alpha + beta HSP90AA1 Rabbit Monoclonal Antibody

Catalog Number: M01103-2

Overview

Product Name	Anti-Hsp90 alpha + beta HSP90AA1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Hsp90 alpha + beta HSP90AA1 Rabbit Monoclonal Antibody catalog # M01103-2. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal EBD-8
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P07900/P08238

Technical Details

Immunogen	A synthesized peptide derived from human Hsp90 alpha + beta
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:1000-5000 IHC 1:50-200 ICC/IF 1:50-200 IP 1:20 FC 1:20

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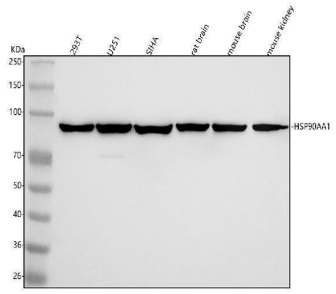
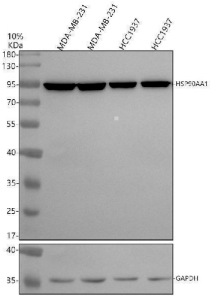
Anti-Hsp90 alpha + beta HSP90AA1 Rabbit Monoclonal Antibody (M01103-2) Images



Western blot analysis of Hsp90 using anti-Hsp90 antibody (M01103-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human SiHa whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Hsp90 antigen affinity purified monoclonal antibody (Catalog # M01103-2) at 1:5000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Hsp90 at approximately 80-100 kDa. The expected band size for Hsp90 is at 85 kDa.



Western blot analysis of HSP90AA1 using anti-HSP90AA1 antibody (M01103-2). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: huamn MDA-MB-231 whole cell lysates, Lane 2: human MDA-MB-231 whole cell lysates, Lane 3: human HCC1937 whole cell lysates, Lane 4: human HCC1937 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HSP90AA1 antigen affinity purified monoclonal antibody (M01103-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween-20 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for HSP90AA1 at approximately 90 kDa. The expected band size for HSP90AA1 is at 90 kDa.

HA induces tolerance to high temperatures via the HIF-1alpha/HSP70 signaling. A & B. The bEnd.3 cells were exposed to 40°C for 2 h daily, continuously for 1 day, 3 days, and 5 days. RT-qPCR was used to detect the expression of Hif-1alpha and Hspa1a mRNA. C. WB was used to detect the expression of HIF-1alpha, HSP90AA1, and HSP70 protein. beta-actin was used as an internal control. D. IF was used to

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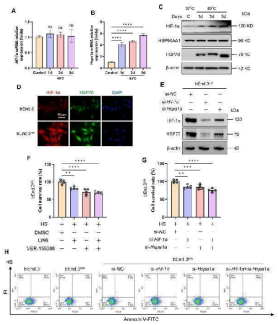
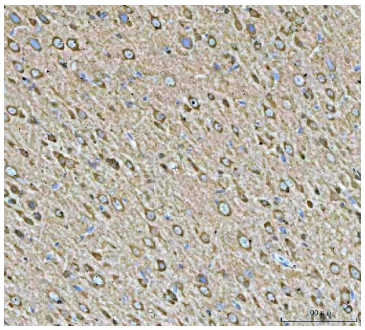
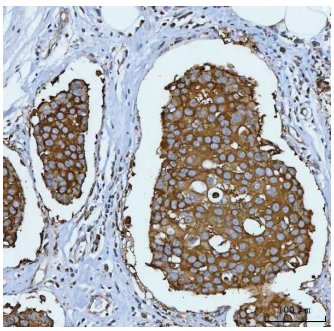


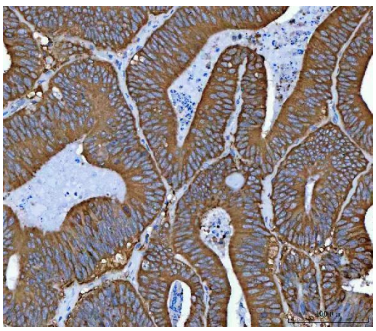
detect the expression of HIF-1alpha and HSP70 protein. E. WB was used to detect the expression of HIF-1alpha and HSP70 protein. beta-actin was used as an internal control. F. bEnd.3 HA cells were exposed to HS for 4 h and treated with LW6, VER-155088, or a combination of both. Cell viability was detected using the CCK-8 assay. G. bEnd.3 HA cells were exposed to HS for 4 h and treated with si- Hif-1alpha , si- Hspa1a , or a combination of both. Cell viability was detected using the CCK-8 assay. H. Flow cytometry with Annexin V and PI staining was used to determine the apoptotic index of cells. ** P < 0.01, *** P < 0.001, **** P < 0.0001.Index in PubMed under a CC BY license. PMID: 39744422



IHC analysis of Hsp90 using anti-Hsp90 antibody (M01103-2). Hsp90 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Hsp90 Antibody (M01103-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Hsp90 using anti-Hsp90 antibody (M01103-2). Hsp90 was detected in a paraffin-embedded section of human brest cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Hsp90 Antibody (M01103-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Hsp90 using anti-Hsp90 antibody (M01103-2). Hsp90 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Hsp90 Antibody (M01103-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of Hsp90 using anti-Hsp90 antibody (M01103-2). Hsp90 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen

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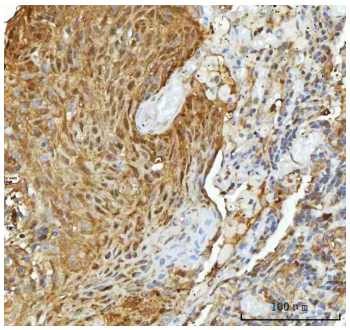
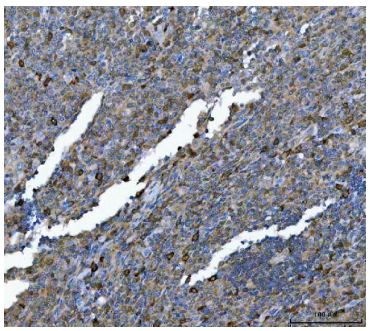
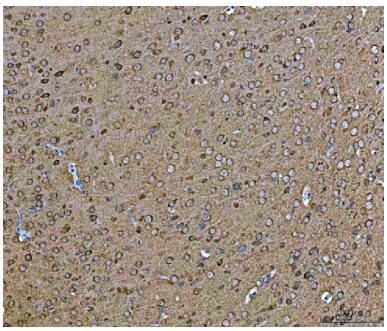


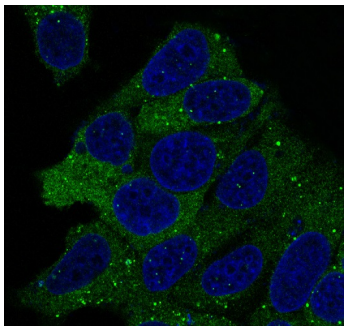
retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Hsp90 Antibody (M01103-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Hsp90 using anti-Hsp90 antibody (M01103-2). Hsp90 was detected in a paraffin-embedded section of human lymphoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Hsp90 Antibody (M01103-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Hsp90 using anti-Hsp90 antibody (M01103-2). Hsp90 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Hsp90 Antibody (M01103-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Immunofluorescent analysis of Hela cells, using Hsp90 Antibody.

Immunofluorescent analysis using the Antibody at 1:50 dilution.

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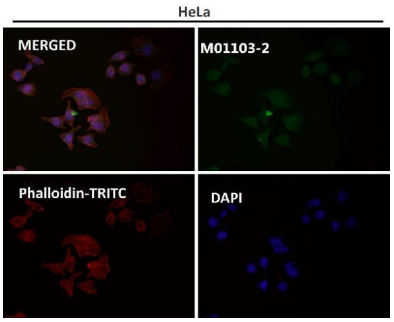

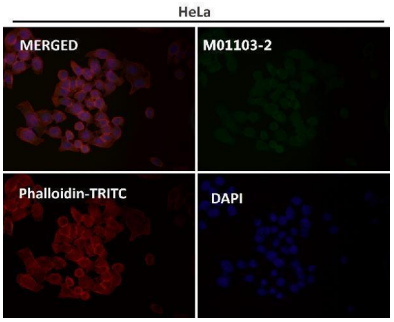

Immunofluorescent analysis using the Antibody at 1:50 dilution.

1 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-??b Switches Autophagy To ...

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