

ARG53947 anti-Hsp 90 beta antibody [MBH90B]

Package: 100 µg
Store at: -20°C

Summary

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|---------------------|---|
| Product Description | Mouse Monoclonal antibody [MBH90B] recognizes Hsp 90 beta |
| Tested Reactivity | Hu, Ms, Bov |
| Tested Application | ICC/IF, IP, WB |
| Specificity | The clone MBH90B recognizes the EEVHHG epitope within the N-terminal part of Hsp90 beta an ubiquitously expressed protein with calculated Mw of 83.3 kDa, however, migrating as a 90 kDa band under reducing SDS-PAGE conditions. |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | MBH90B |
| Isotype | IgG1 |
| Target Name | Hsp 90 beta |
| Species | Human |
| Immunogen | Peptide corresponding to the EEVHHGEEVEEC sequence within N-terminal part of human Hsp90. |
| Conjugation | Un-conjugated |
| Alternate Names | HSPC2; D6S182; Heat shock 84 kDa; HSP90B; HSP84; HSP 84; Heat shock protein HSP 90-beta; HSP 90; HSPCB |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|----------|
| | ICC/IF | 1 µg/ml |
| | IP | 1 µg/ml |
| | WB | 1 µg/ml |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

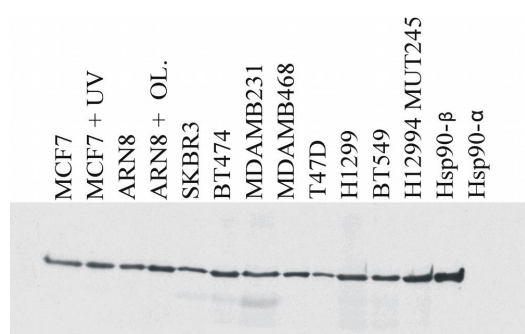
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|--------------|---|
| Form | Liquid |
| Purification | Purified from ascites by protein-A affinity chromatography. |
| Purity | > 95% (by SDS-PAGE) |
| Buffer | PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA |
| Preservative | 15 mM Sodium azide |
| Stabilizer | 0.2% (w/v) high-grade protease free BSA |

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| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|----------------|--|
| Gene Symbol | HSP90AB1 |
| Gene Full Name | heat shock protein 90kDa alpha (cytosolic), class B member 1 |
| Background | Hsp90 beta (heat shock protein 90 beta) is a constitutively expressed isoform of Hsp90, one of the most abundant chaperones in the cytosol of eukaryotic cells. Hsp90 interacts with various proteins, including protein kinases and transcription factors, and either facilitates their stabilization and activation or directs them for proteasomal degradation. Hsp90 thus affects multiple signaling pathways and biological processes and modulation of this single target offers the prospect of simultaneous interence to various key points of oncogenic transformation. Hsp90 operates as a dimer in a conformational cycle driven by ATP binding and hydrolysis. |
| Function | Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function. [UniProt] |
| Research Area | Cancer antibody; Signaling Transduction antibody |
| Calculated Mw | 83 kDa |
| PTM | Ubiquitinated in the presence of STUB1-UBE2D1 complex (in vitro). ISGylated. S-nitrosylated; negatively regulates the ATPase activity. Phosphorylation at Tyr-301 by SRC is induced by lipopolysaccharide (PubMed:23585225). Phosphorylation at Ser-226 and Ser-255 inhibits AHR interaction (PubMed:15581363). Methylated by SMYD2; facilitates dimerization and chaperone complex formation; promotes cancer cell proliferation. Cleaved following oxidative stress resulting in HSP90AB1 protein radicals formation; disrupts the chaperoning function and the degradation of its client proteins. |

Images



MBH90B

ARG53947 anti-Hsp 90 beta antibody [MBH90B] WB image

Western blot: Various cell lines and recombinant Hsp90 alpha and Hsp90 beta protein stained with ARG53947 anti-Hsp 90 beta antibody [MBH90B].