

## ARG53946 anti-Hsp 90 antibody [MBH90AB]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [MBH90AB] recognizes Hsp 90
Tested Reactivity	Hu, Ms, Bov
Tested Application	IHC-P, WB
Specificity	The clone MBH90AB recognizes the epitope EEEVE within N-terminal part of ubiquitously expressed Hsp90 alpha and Hsp90 beta proteins with calculated MW of 84.7 kDa and 83.3 kDa, respectively, however, migrating as 90 kDa bands under reducing SDS-PAGE conditions.
Host	Mouse
Clonality	Monoclonal
Clone	MBH90AB
Isotype	IgG1
Target Name	Hsp 90
Species	Human
Immunogen	Peptide corresponding to the sequence EEVHHGEEVEEC within N-terminal part of human Hsp90.
Conjugation	Un-conjugated
Alternate Names	EL52; Hsp90; HSPC1; Heat shock 86 kDa; LAP-2; HSP90N; LAP2; HSP90A; HSPCAL4; HSP89A; HSP86; HSP 86; HSPCA; Lipopolysaccharide-associated protein 2; HSPCAL1; LPS-associated protein 2; HSPN; Renal carcinoma antigen NY-REN-38; Heat shock protein HSP 90-alpha; Hsp89

### Application Instructions

Application table	Application	Dilution
	IHC-P	Assay-dependent
	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

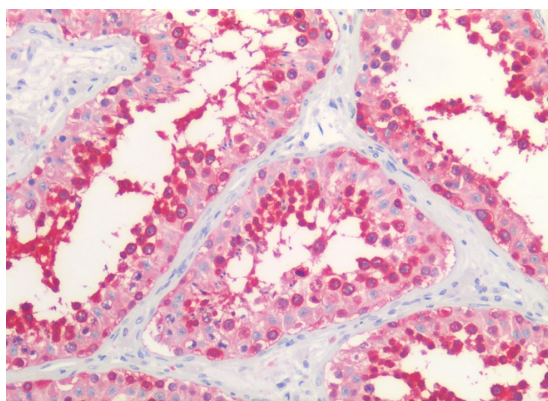
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA

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

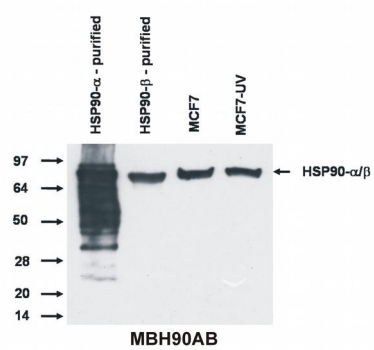
Gene Symbol	HSP90AA1
Gene Full Name	heat shock protein 90kDa alpha (cytosolic), class A member 1
Background	Hsp90 (heat shock protein 90) is one of the most abundant chaperones in the cytosol of eukaryotic cells. It interacts with various proteins, including protein kinases and transcription factors, 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. There are two isoforms, alpha and beta, of vertebrate Hsp90. Whereas Hsp90 beta is expressed constitutively to a high level, Hsp90 alpha is stress-inducible and is overexpressed in many cancerous cells._x000D_
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. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes. [UniProt]
Research Area	Cancer antibody; Signaling Transduction antibody
Calculated Mw	85 kDa
PTM	ISGylated. S-nitrosylated; negatively regulates the ATPase activity and the activation of eNOS by HSP90AA1.

## Images



ARG53946 anti-Hsp 90 antibody [MBH90AB] IHC-P image

Immunohistochemistry: Paraffin-embedded Human testis tissue stained with ARG53946 anti-Hsp 90 antibody [MBH90AB].



ARG53946 anti-Hsp 90 antibody [MBH90AB] WB image

Western blot: 1. Purified Hsp90 alpha protein, 2. Hsp90 beta protein, 3. MCF-7 cell lysate, 4. MCF-7-UV cell lysate stained with ARG53946 anti-Hsp 90 antibody [MBH90AB].