

## ARG54450 anti-Hsp 90 alpha antibody [D7 alpha (D7a)]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [D7 alpha (D7a)] recognizes Hsp 90 alpha
Tested Reactivity	Hu, Ms, Rat, Bov, Chk, Pig, Rb
Tested Application	IP, WB
Specificity	This antibody recognizes human, mouse, rat, rabbit, bovine, porcine, and chicken Hsp90α (90 kDa).
Host	Mouse
Clonality	Monoclonal
Clone	D7 alpha (D7a)
Isotype	IgG1
Target Name	Hsp 90 alpha
Species	Chicken
Immunogen	Full-length Hsp90 purified from chicken brain
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 Note	Western blot: use at 1 - 5 µg/ml. A band of ~90 kDa is detected. Immunoprecipitation: 5 µg on 20 µl Protein A - Sepharose + 100 µl sample. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Heat-shocked HeLa cell lysate.

### Properties

Form	Liquid
Purification	Protein G affinity chromatography
Buffer	PBS (pH 7.4), 50% Glycerol and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
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. 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 and the 94 kDa glucose-regulated protein, Grp94, are major molecular chaperones of the cytosol and endoplasmic reticulum. In mammalian cells, there are at least two Hsp90 isoforms, Hsp90 $\alpha$ and Hsp90 $\beta$ , which are encoded by separate genes. All known members of the Hsp90 family are highly conserved, especially in the N-terminal and C-terminal regions. In the absence of stress, Hsp90 is an essential component of cellular processes such as hormone signaling and cell cycle control. Several regulatory proteins such as steroid receptors, cell cycle kinases and p53 have been identified as substrates of Hsp90.
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 (By similarity). [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.