

## ARG40905 anti-Hsp 90 antibody

Package: 100 μl Store at: -20°C

# Summary

| Product Description | Rabbit Polyclonal antibody recognizes Hsp 90   |
|---------------------|--|
| Tested Reactivity   | Hu, Ms, Rat  |
| Tested Application  | FACS, ICC/IF, IHC-P, IP, WB  |
| Specificity         | This antibody reacts to Hsp90 alpha and Hsp90 beta proteins.   |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | lgG  |
| Target Name         | Hsp 90   |
| Species             | Human  |
| Immunogen           | Synthetic peptide derived from Human Hsp 90.   |
| Conjugation         | Un-conjugated  |
| Alternate Names     | EL52; Hsp90; HSPC1; Heat shock 86 kDa; LAP-2; HSP90N; LAP2; HSP90A; HSPCAL4; HSP89A; HSP86; HSP<br>86; HSPCA; Lipopolysaccharide-associated protein 2; HSPCAL1; LPS-associated protein 2; HSPN; Renal<br>carcinoma antigen NY-REN-38; Heat shock protein HSP 90-alpha; Hsp89 |

# **Application Instructions**

| Application table | Application  | Dilution         |
|-------------------|--|------------------|
|                   | FACS   | Assay-dependent  |
|                   | ICC/IF   | 1:50 - 1:200     |
|                   | IHC-P  | 1:50 - 1:200     |
|                   | IP   | 1:50             |
|                   | WB   | 1:5000 - 1:10000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                  |
| Positive Control  | HEK293   |                  |

### Properties

| Form         | Liquid  |
|--------------|---|
| Purification | Affinity purified.  |
| Buffer       | PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% 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            | The protein encoded by this gene is an inducible molecular chaperone that functions as a homodimer.<br>The encoded protein aids in the proper folding of specific target proteins by use of an ATPase activity<br>that is modulated by co-chaperones. Two transcript variants encoding different isoforms have been<br>found for this gene. [provided by RefSeq, Jan 2012]  |
| 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] |
| Calculated Mw         | 85 kDa  |
| РТМ                   | ISGylated.  |
|                       | S-nitrosylated; negatively regulates the ATPase activity and the activation of eNOS by HSP90AA1.<br>[UniProt]   |
| Cellular Localization | Nucleus. Cytoplasm. Melanosome. Cell membrane. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. [UniProt]   |

# Images



### ARG40905 anti-Hsp 90 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG40905 anti-Hsp 90 antibody.





#### ARG40905 anti-Hsp 90 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver carcinoma tissue stained with ARG40905 anti-Hsp 90 antibody.

#### ARG40905 anti-Hsp 90 antibody WB image

Western blot: HEK-293 cell lysate stained with ARG40905 anti-Hsp 90 antibody.