

## ARG55781 anti-Hsp 90 antibody

Package: 50 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes Hsp 90   |
| Tested Reactivity   | Hu, Ms   |
| Tested Application  | WB   |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | Hsp 90   |
| Species             | Human  |
| Immunogen           | Recombinant protein 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

| Predict Reactivity Note | Rat  |             |          |    |                |
|-------------------------|--|-------------|----------|----|----------------|
| Application table       | <table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>WB</td><td>1:500 - 1:2000</td></tr></tbody></table>     | Application | Dilution | WB | 1:500 - 1:2000 |
| Application             | Dilution   |             |          |    |                |
| WB                      | 1:500 - 1:2000   |             |          |    |                |
| Application Note        | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |             |          |    |                |
| Positive Control        | NIH/3T3  |             |          |    |                |
| Observed Size           | ~ 80 kDa   |             |          |    |                |

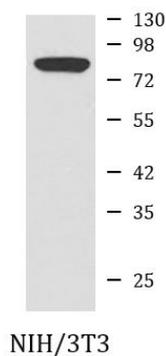
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purification with immunogen.   |
| Buffer              | PBS (pH 7.3), 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

|                |   |
|----------------|---|
| Database links | <a href="#">GeneID: 15516 Mouse</a><br><a href="#">GeneID: 3326 Human</a><br><a href="#">Swiss-port # P08238 Human</a><br><a href="#">Swiss-port # P11499 Mouse</a>   |
| Gene Symbol    | HSP90AB1  |
| Gene Full Name | heat shock protein 90kDa alpha (cytosolic), class B member 1  |
| Background     | This gene encodes a member of the heat shock protein 90 family; these proteins are involved in signal transduction, protein folding and degradation and morphological evolution. This gene encodes the constitutive form of the cytosolic 90 kDa heat-shock protein and is thought to play a role in gastric apoptosis and inflammation. Alternative splicing results in multiple transcript variants. Pseudogenes have been identified on multiple chromosomes. [provided by RefSeq, Dec 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. [UniProt]   |
| Calculated Mw  | 83 kDa  |
| PTM            | Ubiquitinated in the presence of STUB1-UBE2D1 complex (in vitro).<br>ISGylated.<br>S-nitrosylated; negatively regulates the ATPase activity.<br>Phosphorylation at Tyr-301 by SRC is induced by lipopolysaccharide (PubMed:23585225).<br>Phosphorylation at Ser-226 and Ser-255 inhibits AHR interaction (PubMed:15581363).<br>Methylated by SMYD2; facilitates dimerization and chaperone complex formation; promotes cancer cell proliferation.<br>Cleaved following oxidative stress resulting in HSP90AB1 protein radicals formation; disrupts the chaperoning function and the degradation of its client proteins. |

## Images



ARG55781 anti-Hsp 90 antibody WB image

Western blot: NIH/3T3 cell lysate stained with ARG55781 anti-Hsp 90 antibody.