

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, Rat |
| Tested Application | IHC-P, 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>IHC-P</td><td>1:50 - 1:200</td></tr><tr><td>WB</td><td>1:500 - 1:2000</td></tr></tbody></table> | Application | Dilution | IHC-P | 1:50 - 1:200 | WB | 1:500 - 1:2000 |
| Application | Dilution | | | | | | |
| IHC-P | 1:50 - 1:200 | | | | | | |
| 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

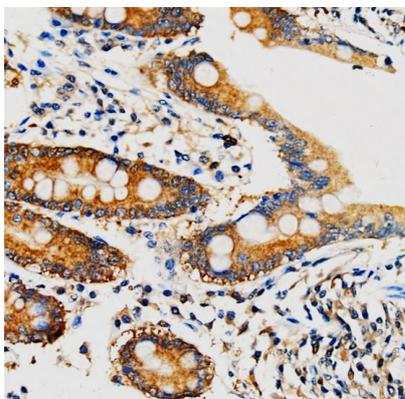
| | |
|---------------------|---|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted 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

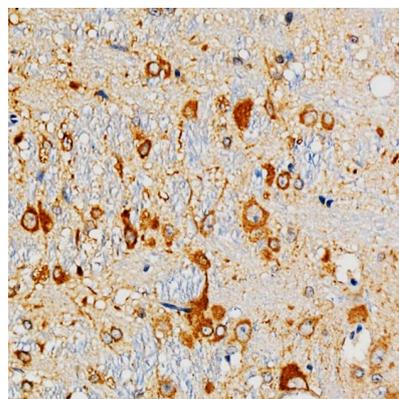
| | |
|----------------|--|
| Gene Symbol | HSP90AB1 |
| Gene Full Name | heat shock protein 90kDa alpha (cytosolic), class B member 1 |
| Background | This gene encodes a member of the heat shock protein 90 family; these proteins are involved in signal transduction, protein folding and degradation and 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). 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



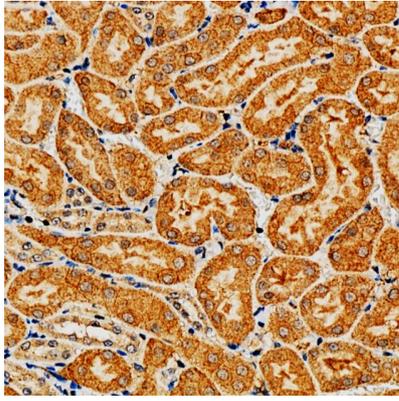
ARG55781 anti-Hsp 90 antibody IHC-P image

Immunohistochemistry: Human small intestine stained with ARG55781 anti-Hsp 90 antibody at 1:100 dilution.



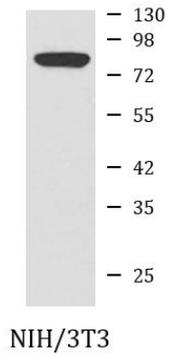
ARG55781 anti-Hsp 90 antibody IHC-P image

Immunohistochemistry: Rat brain stained with ARG55781 anti-Hsp 90 antibody at 1:100 dilution.



ARG55781 anti-Hsp 90 antibody IHC-P image

Immunohistochemistry: Mouse kidney stained with ARG55781 anti-Hsp 90 antibody at 1:100 dilution.



ARG55781 anti-Hsp 90 antibody WB image

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