

ARG55760 anti-Hsp 90 beta antibody

Package: 100 µl
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes Hsp 90 beta |
| Tested Reactivity | Hu, Rat |
| Predict Reactivity | Ms, Bov, Chk, Mk |
| Tested Application | FACS, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | Hsp 90 beta |
| Species | Human |
| Immunogen | KLH-conjugated synthetic peptide corresponding to aa. 438-465 (Center) of Human Hsp90 beta. |
| 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

| Application table | Application | Dilution |
|-------------------|--|--------------|
| | FACS | 1:10 - 1:50 |
| | IHC-P | 1:50 - 1:100 |
| | WB | 1:1000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | HeLa | |

Properties

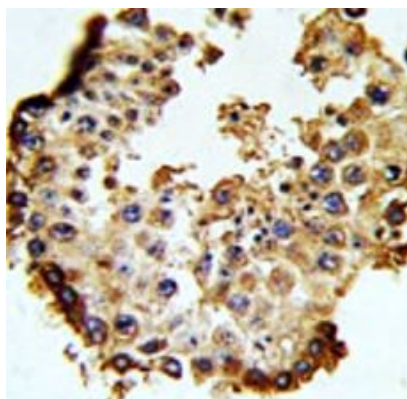
| | |
|---------------------|--|
| Form | Liquid |
| Purification | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Buffer | PBS and 0.09% (W/V) Sodium azide. |
| Preservative | 0.09% (W/V) Sodium azide. |
| Storage instruction | For continuous 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

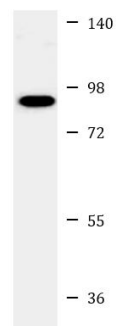
| | |
|-----------------------|---|
| Database links | GeneID: 301252 Rat GeneID: 3326 Human Swiss-port # P08238 Human Swiss-port # P34058 Rat |
| Gene Symbol | HSP90AB1 |
| Gene Full Name | heat shock protein 90kDa alpha (cytosolic), class B member 1 |
| Background | This gene encodes a member of the 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. |
| Cellular Localization | Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV |

Images



ARG55760 anti-Hsp 90 beta antibody IHC-P image

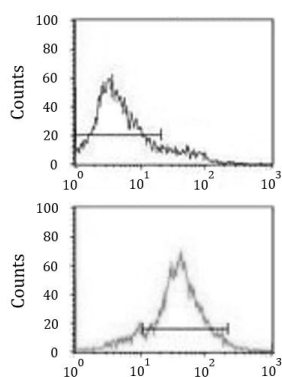
Immunohistochemistry: Formalin-fixed and paraffin-embedded Human testis tissue stained with ARG55760 anti-Hsp 90 beta antibody.



HeLa

ARG55760 anti-Hsp 90 beta antibody WB image

Western blot: 35 μ g of HeLa cell lysate stained with ARG55760 anti-Hsp 90 beta antibody.



ARG55760 anti-Hsp 90 beta antibody FACS image

Flow Cytometry: WiDr cells stained with ARG55760 anti-Hsp 90 beta antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.