

## ARG40899 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, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Hsp 90 beta
Species	Human
Immunogen	Synthetic peptide derived from Human Hsp 90 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	1:50
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	IP	1:50
	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	Jurkat	

### 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.

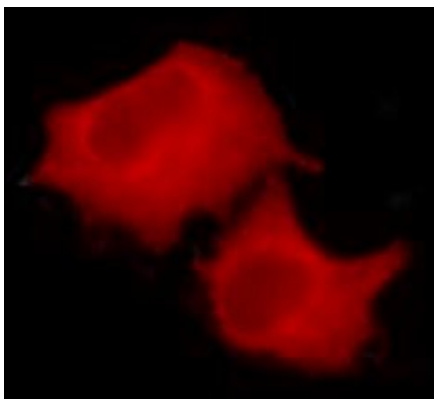
#### Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

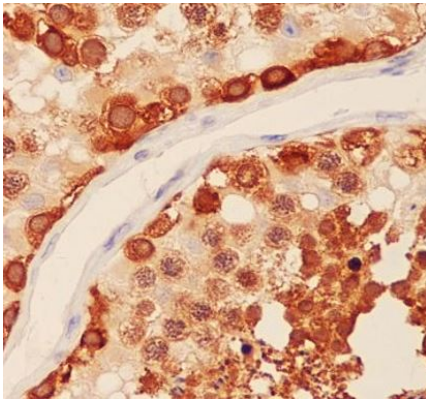
Gene Symbol	HSP90AB1
Gene Full Name	heat shock protein 90kDa alpha (cytosolic), class B member 1
Background	This gene encodes a member of the heat shock protein 90 family; these proteins are involved in signal transduction, protein folding and degradation and morphological evolution. This gene encodes 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. [UniProt]
Cellular Localization	Cytoplasm. Melanosome. Nucleus. Secreted. Cell membrane. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065). Translocates with BIRC2 from the nucleus to the cytoplasm during differentiation (PubMed:18239673). Secreted when associated with TGFB1 processed form (LAP) (PubMed:20599762). [UniProt]

## Images



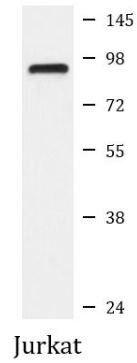
ARG40899 anti-Hsp 90 beta antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG40899 anti-Hsp 90 beta antibody.



ARG40899 anti-Hsp 90 beta antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human testis tissue stained with ARG40899 anti-Hsp 90 beta antibody.



ARG40899 anti-Hsp 90 beta antibody WB image

Western blot: Jurkat cell lysate stained with ARG40899 anti-Hsp 90 beta antibody.