

ARG51690 anti-Hsp 90 beta phospho (Ser254) antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Hsp 90 beta phospho (Ser254)
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Hsp 90 beta
Species	Human
Immunogen	Peptide sequence around phosphorylation site of serine 254 (V-G-S(p)-D-E) derived from Human HSP90B.
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
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

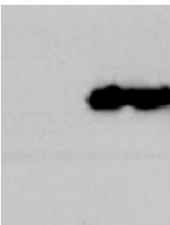
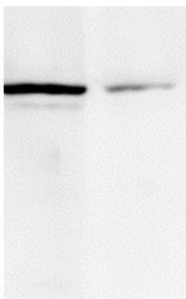
Properties

Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Buffer	PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
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	Molecular chaperone. Has ATPase activity.
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]
Research Area	Cancer antibody; Signaling Transduction antibody
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

<div><div><div><div>KD</div><div>130</div><div>95</div><div>72</div></div><div><div>1</div><div>2</div></div><div><div>hot shock</div><div>-</div><div>+</div></div></div><div></div><div><div>HSP90B (pSer254)</div></div></div> <td><div>ARG51690 anti-Hsp 90 beta phospho (Ser254) antibody WB image</div><div>Western blot: Extracts from HeLa cells untreated(lane 1) or treated with hot shock(lane 2) stained with ARG51690 anti-Hsp 90 beta phospho (Ser254) antibody.</div></td>	<div>ARG51690 anti-Hsp 90 beta phospho (Ser254) antibody WB image</div> <div>Western blot: Extracts from HeLa cells untreated(lane 1) or treated with hot shock(lane 2) stained with ARG51690 anti-Hsp 90 beta phospho (Ser254) antibody.</div>
<div><div><div><div>KD</div><div>130</div><div>100</div><div>70</div><div>55</div><div>40</div></div><div><div>Hela</div><div>-</div><div>+</div></div><div><div>CIP</div><div>-</div><div>+</div></div></div><div></div><div><div>←HSP90B (pSer254)</div></div></div> <td><div>ARG51690 anti-Hsp 90 beta phospho (Ser254) antibody WB image</div><div>Western blot: Extracts from HeLa cells, treated with calf intestinal phosphatase (CIP), stained with ARG51690 anti-Hsp 90 beta phospho (Ser254) antibody.</div></td>	<div>ARG51690 anti-Hsp 90 beta phospho (Ser254) antibody WB image</div> <div>Western blot: Extracts from HeLa cells, treated with calf intestinal phosphatase (CIP), stained with ARG51690 anti-Hsp 90 beta phospho (Ser254) antibody.</div>