

MB0215

HSP90AB1 Antibody



- 50ul
- 100 uL

Order	021-34695924 orders@ab-mart.com
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Description:

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. Engages with a range of client protein classes via its interaction with various co-chaperone proteins or complexes, that act as adapters, simultaneously able to interact with the specific client and the central chaperone itself. Recruitment of ATP and co-chaperone followed by client protein forms a functional chaperone. After the completion of the chaperoning process, properly folded client protein and co-chaperone leave HSP90 in an ADP-bound partially open conformation and finally, ADP is released from HSP90 which acquires an open conformation for the next cycle. Apart from its chaperone activity, it also plays a role in the regulation of the transcription machinery. HSP90 and its co-chaperones modulate transcription at least at three different levels. In the first place, they alter the steady-state levels of certain transcription factors in response to various physiological cues. Second, they modulate the activity of certain epigenetic modifiers, such as histone deacetylases or DNA methyl transferases, and thereby respond to the change in the environment. Third, they participate in the eviction of histones from the promoter region of certain genes and thereby turn on gene expression. Antagonizes STUB1-mediated inhibition of TGF-beta signaling via inhibition of STUB1-mediated SMAD3 ubiquitination and degradation. Promotes cell differentiation by chaperoning BIRC2 and thereby protecting from auto-ubiquitination and degradation by the proteasomal machinery. Main chaperone that is involved in the phosphorylation/activation of the STAT1 by chaperoning both JAK2 and PRKCE under heat shock and in turn, activates its own transcription.

Uniprot : P08238

Alternative Names:

90 kda heat shock protein beta HSP90 beta; D6S182; FLJ26984; Heat shock 84 kDa; Heat shock 90kD protein 1, beta; Heat shock 90kDa protein 1 beta; Heat shock protein 90 alpha family class B member 1; Heat shock protein 90 kDa; Heat shock protein 90kDa alpha (cytosolic) class B member 1; Heat shock protein 90kDa alpha family class B member 1; Heat shock protein beta; Heat shock protein HSP 90 beta; Heat shock protein HSP 90-beta; HS90B_HUMAN; HSP 84; HSP 90; HSP 90 b; HSP 90b; HSP84; HSP90 BETA; hsp90ab1; HSP90B; HSPC2; HSPCB;

Specificity:

HSP90AB1 antibody detects endogenous levels of total HSP90AB1.

Reactivity : Human, Mouse, Rat, Monkey

Source : Mouse

Mol.Wt. : 84kD; 83kDa(Calculated).

Storage Condition:

Store at -20 °C. Stable for 12 months from date of receipt.

Application:

WB,IHC,IF/ICC,ELISA,FCM

Recommended dilution

WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:50-1:500 ELISA 1: 2000 FCM 1: 50