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[Marker Primary Antibody]

Rabbit Anti-HSP90 beta/AF594 Conjugated antibody

Catalog Number: SL20655R-AF594

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-HSP90 beta/AF594
Immunogen:	KLH conjugated synthetic peptide derived from human HSP90 beta
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=1μg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Pig,Cow,Horse)
Background:	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. **Subunit:** Homodimer. Interacts with p53/TP53. Forms a complex with CDK6

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	and Hsp90/HSP90AB1. Interacts with UNC45A. Binding to UNC45A involves 2 UNC45A monomers per HSP90AB1 dimer. Interacts with CHORDC1 and DNAJC7. Interacts with FKBP4. **Subcellular Location:** Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. **Post-translational modifications:** Ubiquitinated in the presence of STUB1-UBE2D1 complex (in vitro). ISGylated. S-nitrosylated; negatively regulates the ATPase activity (Probable). **Similarity:** Belongs to the heat shock protein 90 family. **Database links:** **Entrez Gene:** 3326 Human **Entrez Gene:** 15516 Mouse **Entrez Gene:** 301252 Rat Omim: 140572 Human **SwissProt:** P08238 Human **SwissProt:** P11499 Mouse **SwissProt:** P34058 Rat **Unigene:** 509736 Human **Unigene:** 2180 Mouse **Unigene:** 98667 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. HSP is a group of stress proteins induced in cells after stimulation by stressors, and is associated with Tumour development, proliferation and differentiation; HSP90β can inhibit Apoptosis and differentiation.