HSP90α ELISA Kit

StressMarq Biosciences INC.

Antibodies • Proteins • Kits • Small Molecules

Heat Shock Protein 90 Alpha (HSP90α) StressXpress® ELISA Kit	Catalog No.	Size
Purpose: ELISA kit used to quantitate the HSP90α concentration in samples	SKT-107-96 SKT-107-480	96-well 5 x 96-well

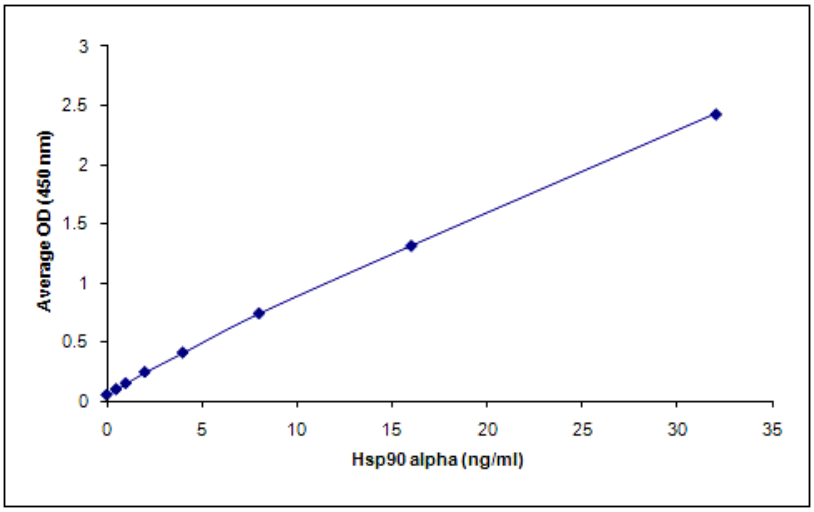
Kit Specifications	
Species Reactivity:	**Human**
Sample Type:	**Cell Lysates** **Tissue Extracts** **Serum Samples**
Assay Range:	**0.5-32 ng/ml**
Incubation Time:	**30 minutes**
Storage Temp:	**4°C**
Shipping Temp:	**4°C**

Kit Components:

- Anti-HSP90α Immunoassay Plate
- 5X HSP90α Extraction Reagent
- Recombinant HSP90α Standard
- Standard and Sample Diluent
- 10X Wash Buffer Concentrate
- Anti-HSP90α Biotinylated Antibody Concentrate
- Anti-HSP90α Biotinylated Antibody Diluent
- Streptavidin: HRP Concentrate
- Streptavidin: HRP Diluent
- TMB Substrate
- Stop Solution

StressMarq Biosciences is pleased to provide you with the StressXpress® Hsp90α ELISA Kit. StressMarq's Hsp90α ELISA Kit is specific for human Hsp90α, and will not react with Hsp90β. Furthermore it will not cross react with Grp94, Hsp60 or HSP90α.

Research Background:



Hsp90 is a highly conserved and essential stress protein that is expressed in all eukaryotic cells. From a functional perspective, hsp90 participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of a chaperone complex. Despite its label of being a heat-shock protein, hsp90 is one of the most highly expressed proteins in unstressed cells (1–2% of cytosolic protein). It carries out a number of housekeeping functions – including controlling the activity, turnover, and trafficking of a variety of proteins. Most of the hsp90- regulated proteins that have been discovered to date are involved in cell signaling. The number of proteins now known to interact with Hsp90 is about 100. Target proteins include the kinases v-Src, Wee1, and c-Raf, transcriptional regulators such as p53 and steroid receptors, and the polymerases of the hepatitis B virus and telomerase. When bound to ATP, Hsp90 interacts with co-chaperones Cdc37, p23, and an assortment of immunophilin-like proteins, forming a complex that stabilizes and protects target proteins from proteasomal degradation. In most cases, hsp90-interacting proteins have been shown to co-precipitate with hsp90 when carrying out immune-oadsorption studies, and to exist in cytosolic heterocomplexes with it. In a number of cases, variations in hsp90 expression or hsp90 mutation has been shown to degrade signaling function via the protein or to impair a specific function of the protein (such as steroid binding, kinase activity) in vivo. Ansamycin antibiotics, such as geldanamycin and radicicol, inhibit hsp90 function.