HSP90α (human), ELISA kit

Most sensitive, rapid ELISA kit for highly specific, quantitative detection of human HSP90α.

The HSP90α (human), EIA kit is a colorimetric immunometric enzyme immunoassay kit with results in < 3 hours. Absorbance is read at 450 nm. Save time, money, and precious sample with fully quantitative results and increased sensitivity compared to Western blot analysis.

The Hsp90 family of heat shock proteins represents one of the most abundantly expressed and highly conserved families of cellular chaperones whose expression can be upregulated under conditions of cellular stress, and includes cytoplasmic (Hsp90-alpha/beta), ER (grp94), and mitochondrial (TRAP1) localized members. Structurally, Hsp90 is characterized by an N-terminal ATP-binding domain, a medial substrate-binding domain, and a C-terminal dimerization motif. Hsp90 dimers function in cooperation with cochaperones (e.g. Hsp40, Hsp70, Hop, p23) to stabilize a multitude of client protein substrates, including steroid hormone receptors, protein kinases, and transcription factors. The essential binding and hydrolysis of ATP by Hsp90 is inhibited by ansamycin drugs (e.g. geldanamycin, 17-AAG) which occupy the N-terminal Hsp90 nucleotide-binding pocket. Many Hsp90 client proteins such as erbB2/Her-2, c-raf, bcr-abl, p53, and hTERT, are members of well characterized oncogenic pathways, making Hsp90 inhibitors useful anticancer agents.

Citations: 30 View Online »

Ordering Information

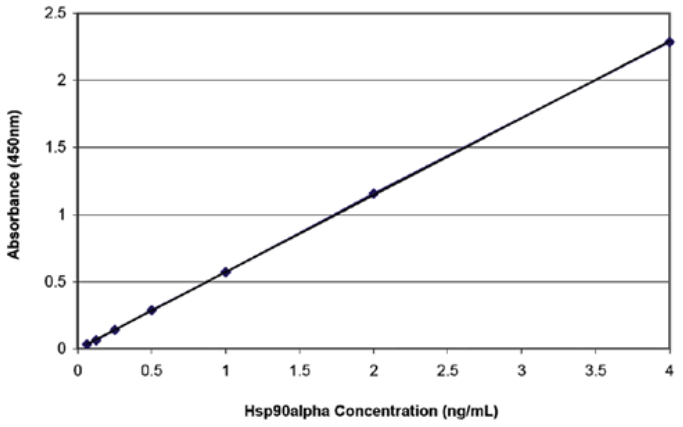
Order Online »

ADI-EKS-895	96 wells

Manuals, SDS & CofA

View Online »

- Reproducible with less than 10% variation between assays
- Highly sensitive detecting as little as 50 pg/ml of human HSP90α
- Higher throughput format, test up to 40 samples in duplicate in just 3 hours
- Fully quantitative results that surpass semi-quantitative Western blot analysis


Absorbance (450nm)
2.5
2
1.5
1
0.5
0
0
0.5
1
1.5
2
2.5
3
3.5
4
Hsp90alpha Concentration (ng/mL)

Handling & Storage

Use/Stability	Store all components at 4°C, except standard at -20°C.
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Heat shock protein 90α, HSP86
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of HSP90α in cell lysates, serum, and tissue of human origin.
Assay Time	<3 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	Microtiter plate, 5X Extraction reagent 2, Standard, Sample diluent, Wash buffer concentrate, HRP Conjugate, Conjugate diluent, TMB Substrate, Stop solution 2
Crossreactivity	HSP90α (100%). No reactivity with HSP90β, Grp94, HSP60, or HSP70 (HSP72).
Sensitivity	50 pg/ml (range 62.5 – 4,000 pg/ml)
Species Reactivity	Human
UniProt ID	P07900
Wavelength	450 nm

Last modified: May 29, 2024

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