

Lot #XXXXX

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MATERIAL DATA SHEET

Anti-HSP90 α Polyclonal Antibody Cat. # A-440

The heat shock protein-90 kDa (HSP90) is a composite name for a large group of genes whose molecular weights average 90 kDa. HSP90 functions primarily as a molecular chaperone, facilitating the folding of other cellular proteins, preventing protein aggregation, or targeting improperly folded proteins to specific degradative pathways. In addition to its role as a molecular chaperone and stress response protein, HSP90 is a central component in a number of cellular processes including hormone signaling and cell cycle control. HSP90 is ubiquitously expressed, highly conserved, and accounts for 1-2% of the total cellular protein. Eukaryotic cells have two principal forms of HSP90 including the inducible HSP90 α (also known as HSP90AA1, HSP90A, HSPC1, HSPCA and HSP86) and the constitutively expressed HSP90 β (also known as HSP90AB1, HSP90B, HSPCB, HSPC2, and HSP89- β). While HSP90 α and HSP90 β share 90% identity, this affinity-purified polyclonal antibody is specific for HSP90 α .

Product Information

Quantity:	50 μ g
Source:	Affinity purified, rabbit polyclonal IgG
Antigen:	Purified, recombinant human HSP90 α protein, Accession Number P07900
Stock:	0.5 mg/ml in PBS pH 7.4, 50% glycerol, 0.09% sodium azide

Use & Storage

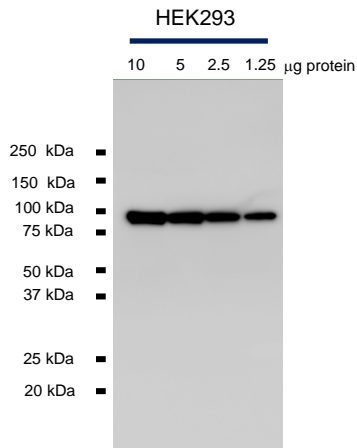
Use:	Recommended concentration for Western blot analysis 0.25 μ g/mL. Detects human HSP90 α . No cross reactivity with recombinant human HSP90 β is observed.
Storage:	Store at -20°C.

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Sample Western Blot Data



NP40-soluble proteins from human embryonic kidney (HEK) cells were diluted in reducing SDS-PAGE Sample Buffer prior to separation on 4-20% gradient gels. Western blots utilizing PVDF membranes were developed using anti-HSP90 α (A-440 antibody) at 0.25 μ g/ml and HRP-labeled anti-mouse (R&D Systems # HAF007) secondary at 1:2000 dilution. A single band of appropriate size was detected in the HEK293 cell extract.

Literature

- References:** Hartl F.U. & Hayer-Hartl M. (2009) Nat. Struc. Mol. Biol. **16**: 574-581
Kampinga H. H. & Craig E.A. (2010) Nat. Rev. Mol. Cell Biol. **11**: 579-592

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