10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HSP90B1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4899A

Specification

HSP90B1 Antibody (N-term) - Product Information

Application	**IF, FC, IHC-P, WB,E**
Primary Accession	P14625
Other Accession	Q66HD0, Q29092, P08113, Q4R520, P08110, Q95M18, O18750
Reactivity	**Human, Hamster, Mouse**
Predicted	**Bovine, Chicken, Monkey, Pig, Rabbit, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**92469**
Antigen Region	**16-43**

HSP90B1 Antibody (N-term) - Additional Information

Gene ID 7184

Other Names
Endoplasmin, 94 kDa glucose-regulated protein, GRP-94, Heat shock protein 90 kDa beta member 1, Tumor rejection antigen 1, gp96 homolog, HSP90B1, GRP94, TRA1

Target/Specificity
This HSP90B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 16-43 amino acids from the N-terminal region of human HSP90B1.

Dilution
IF~~1:10~50
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HSP90B1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HSP90B1 Antibody (N-term) - Protein Information

Name HSP90B1 {ECO:0000303|PubMed:39509507, ECO:0000312|HGNC:HGNC:12028}

Function ATP-dependent chaperone involved in the processing of proteins in the endoplasmic reticulum, regulating their transport (PubMed:23572575, PubMed:39509507). Together with MESD, acts as a modulator of the Wnt pathway by promoting the folding of LRP6, a coreceptor of the canonical Wnt pathway (PubMed:23572575, PubMed:39509507). When associated with CNPY3, required for proper folding of Toll-like receptors (PubMed:11584270). Promotes folding and trafficking of TLR4 to the cell surface (PubMed:11584270). May participate in the unfolding of cytosolic leaderless cargos (lacking the secretion signal sequence) such as the interleukin 1/IL-1 to facilitate their translocation into the ERGIC (endoplasmic reticulum- Golgi intermediate compartment) and secretion; the translocation process is mediated by the cargo receptor TMED10 (PubMed:32272059).

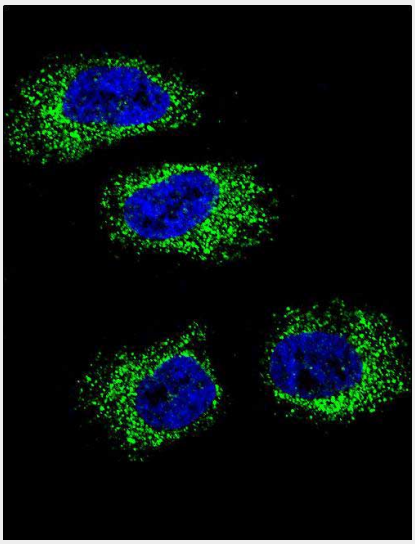
Cellular Location
Endoplasmic reticulum lumen. Sarcoplasmic reticulum lumen {ECO:0000250|UniProtKB:P41148}. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

HSP90B1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HSP90B1 Antibody (N-term) - Images



Confocal immunofluorescent analysis of HSP90B1 Antibody (N-term)(Cat#AP4899a) with

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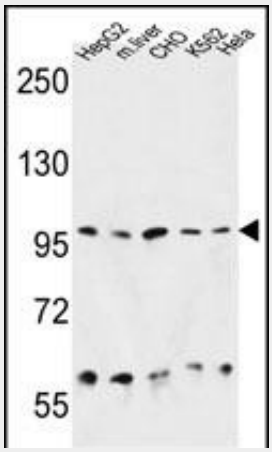
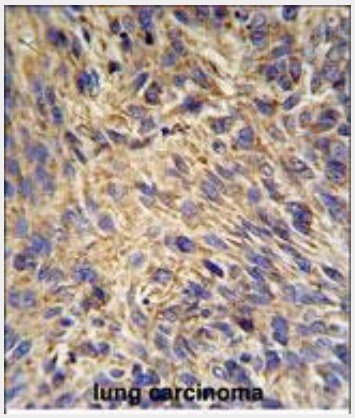
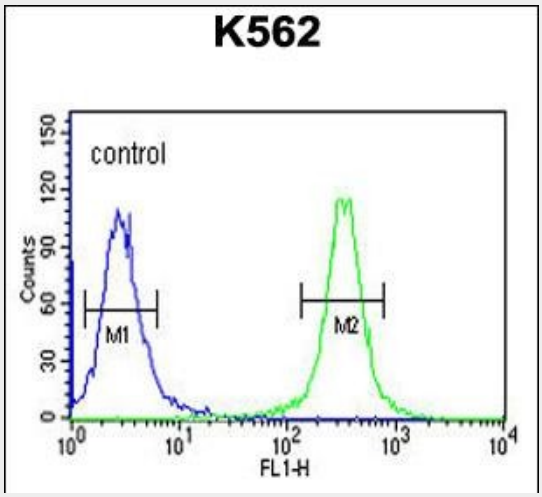
NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



HSP90B1 Antibody (N-term) (Cat. #AP4899a) western blot analysis in HepG2, CHO, K562, Hela cell line and mouse liver tissue lysates (35ug/lane).This demonstrates the HSP90B1 antibody detected the HSP90B1 protein (arrow).



HSP90B1 Antibody (N-term) (Cat. #AP4899a) IHC analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HSP90B1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



HSP90B1 Antibody (N-term) (Cat. #AP4899a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit

secondary antibodies were used for the analysis.

HSP90B1 Antibody (N-term) - Background

HSP90B1 is highly conserved molecular chaperones that have key roles in signal transduction, protein folding, protein degradation, and morphologic evolution. HSP90 proteins normally associate with other cochaperones and play important roles in folding newly synthesized proteins or stabilizing and refolding denatured proteins after stress. HSP90B1 is an endoplasmic reticulum HSP90 protein. Other HSP90 proteins are found in cytosol.

HSP90B1 Antibody (N-term) - References

Koo, B.H., et al. J. Biol. Chem. 285(1):197-205(2010) Suriano, R., et al. Glycobiology 19(12):1427-1435(2009) Lev, A., et al. J. Immunol. 183(7):4205-4210(2009)

HSP90B1 Antibody (N-term) - Citations

- The high-fat diet induces myocardial fibrosis in the metabolically healthy obese minipigs-The role of ER stress and oxidative stress.