

Product datasheet for **AP06150PU-N**

GRP94 (HSP90B1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	Western blot: 1/500–1/1000. Immunohistochemistry on paraffin sections: 1/50–1/200. Immunofluorescence: 1/50–1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 760–810 of Human GRP94.
Specificity:	This antibody detects endogenous levels of GRP94/HSP90B1 protein. (region surrounding Glu790)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff – Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2–8°C for one month or (in aliquots) at –20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 94 kDa
Gene Name:	heat shock protein 90kDa beta family member 1

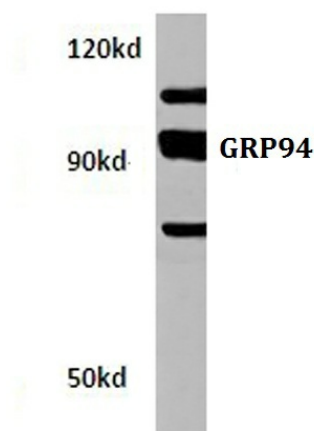


Database Link: [Entrez Gene 7184 Human P14625](#)

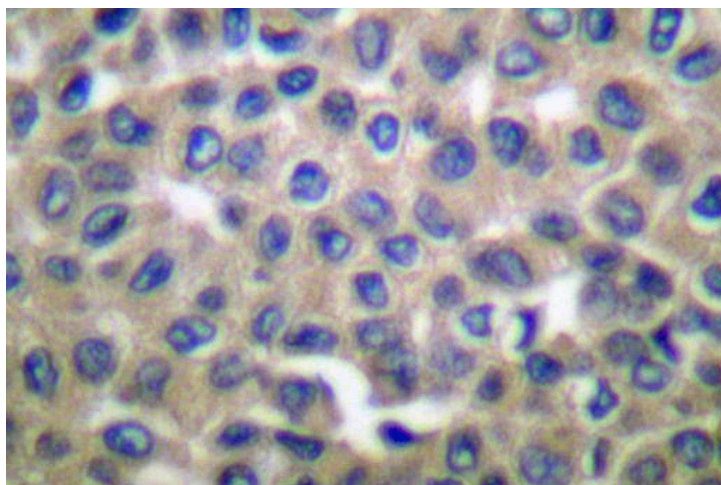
Background: Glucose regulated protein 94 (GRP 94) is a resident protein of the endoplasmic reticulum (ER) and is induced by the accumulation of unfolded proteins suggesting that it might associate transiently with a variety of newly synthesized secretory and membrane proteins or permanently with mutant or defective proteins. The highly conserved sequence Lys-Asp-Glu-Leu (KDEL) is present at the C terminus of GRP 94 and other resident ER proteins including GRP 78 and protein disulfide isomerase (PDI). The presence of carboxy terminal KDEL appears to be necessary for retention and appears to be sufficient to reduce the secretion of proteins from the ER. This retention is reported to be mediated by a KDEL receptor. GRP 94 is also a low affinity, high capacity calcium binding protein, though its role, if any, in calcium regulation is not understood.

Synonyms: Tumor rejection antigen 1, GRP94

Product images:



Western blot (WB) analysis of GRP94 antibody in extracts from hela cells.



Immunohistochemistry (IHC) analyzes of GRP94/HSP90B1 antibody in paraffin-embedded human breast carcinoma tissue.