

Product datasheet for **TA326478**

GRP94 (HSP90B1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000, IP: 1:80
Reactivity:	Human, Mouse, Rat, Bovine
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to the sequence near the C-terminus of mouse GRP94.
Formulation:	PBS pH 7.4, 0.09% azide.
Concentration:	lot specific
Purification:	Peptide Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	heat shock protein 90kDa beta family member 1
Database Link:	NP_003290 Entrez Gene 22027 Mouse Entrez Gene 362862 Rat Entrez Gene 7184 Human P14625



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Background:

Grp94 (glucose regulated protein 94, gp96) is a constitutively expressed endoplasmic reticulum (ER) luminal protein that is up-regulated in response to cellular stress such as heat shock, oxidative stress or glucose depletion. Grp94 is thought to play a role in protein translocation to the ER, in their subsequent folding and assembly, and in regulating protein secretion . Grp94 also plays a role in antigen presentation by accessing the endogenous pathway and eliciting specific CTL responses to chaperone bound peptides via MHC class I pathway Grp94 is a member of the Hsp90 family of stress proteins and shares sequence homology with its cytosolic equivalent, Hsp90 . Both Hsp90 and Grp94 are calcium binding proteins . Despite sharing 50% sequence homology over its N domains and complete conservation in its ligand binding domains with Hsp90, Grp94 and Hsp90 differ in their interactions with regulatory ligands as Grp94 has weak ATP binding and hydrolysis activity .Grp94 exists as a homodimer and the two subunits interact at two distinct intermolecular sites, C terminal dimerization domains and the N-terminal interacts with the middle domain of opposing subunits. . Grp94 contains a carboxy terminal KDEL (Lys-Asp-Glu-Leu) sequence which is believed to aid in its retention in the ER .

Synonyms:

ECGP; GP96; GRP94; HEL-S-125m; HEL35; TRA1

Note:

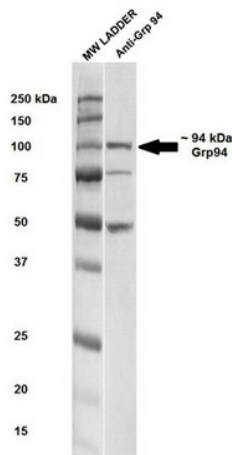
Detects ~94kDa.

Protein Families:

Druggable Genome

Protein Pathways:

NOD-like receptor signaling pathway, Pathways in cancer, Prostate cancer

Product images:


WB of rat brain lysate showing detection of ~94 kDa GRP94 using Anti-GRP94. Load: 20 ug RB lysate per lane. Block: 5% milk + TBST 1hr at RT. Primary antibody: Rabbit Anti-GRP94 polyclonal antibody incubated for 60 min at RT. Secondary antibody: Goat Anti-Mouse HRP antibody at 1:50-1:100 for 60 min at RT. Colour Development: TMB solution for 5 min at RT. Predicted/Observed size: ~ 94-100 kDa. Other band (s): ~50, ~75 kDa.