Rabbit anti-Human, Mouse GRP94 Polyclonal Antibody | anti-GRP94 antibody

GRP94 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321215	**Rabbit**	**Human, Mouse**	**ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

GRP94; Polyclonal Antibody; GRP94 Antibody; 94 kDa glucose regulated protein; 94 kDa glucose-regulated protein; ECGP; Endoplasmin; Endothelial cell (HBMEC) glycoprotein; ENPL_HUMAN; Glucose regulated protein 94kDa; gp96; gp96 homolog; GRP 94; GRP-94; Heat shock protein 90 kDa beta member 1; heat shock protein 90kDa beta (Grp94); member 1; Heat shock protein; 90 kDa; beta; 1; HSP90B1; Stress inducible tumor rejection antigen GP96; TRA1; tumor rejection antigen (gp96) 1; Tumor rejection antigen 1; Tumor rejection antigen gp96; Tumor rejection antigen-1 (gp96); anti-GRP94 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	GRP94 antibody detects endogenous levels of GRP94
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	803
Applicable Applications for anti-GRP94 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GRP94
Subcellular Location	Endoplasmic Reticulum Lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IHC (Immunohistochemisry)
AAA321215 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis on SKOV3 cell lysate using GRP94 Antibody. The lane on the left is treated with the antigen-specific peptide.

IF (Immunofluorescence)
AAA321215 staining SKOV3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GRP94 antibody	Description: GRP94 Molecular chaperone that functions in the processing and transport of secreted proteins. When associated with CNPY3, required for proper folding of Toll-like receptors. Functions in endoplasmic reticulum associated degradation (ERAD). Has ATPase activity. Homodimer; disulfide-linked. Component of an EIF2 complex at least composed of CELF1/CUGBP1, CALR, CALR3, EIF2S1, EIF2S2, HSP90B1 and HSPA5. Function: Molecular chaperone that functions in the processing and transport of secreted proteins. When associated with CNPY3, required for proper folding of Toll-like receptors (By similarity). Functions in endoplasmic reticulum associated degradation (ERAD). Has ATPase activity. Subunit Structure: Homodimer; disulfide-linked. Component of an EIF2 complex at least composed of CELF1/CUGBP1, CALR, CALR3, EIF2S1, EIF2S2, HSP90B1 and HSPA5 (By similarity). Part of a large chaperone multiprotein complex comprising DNAJB11, HSP90B1, HSPA5, HYOU, PDIA2, PDIA4, PDIA6, PPIB, SDF2L1, UGT1A1 and very small amounts of ERP29, but not, or at very low levels, CALR nor CANX. Interacts with AIMP1; regulates its retention in the endoplasmic reticulum. Interacts with OS9. Interacts with CNPY3. This interaction is disrupted in the presence of ATP (By similarity). Interacts with TLR4 and TLR9, but not with TLR3. Interacts with MZB1 in a calcium-dependent manner (By similarity). Interacts with METTL23. Similarity: Belongs to the heat shock protein 90 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507677
NCBI GeneID	7184
NCBI Accession #	NP_003290.1
NCBI GenBank Nucleotide #	NM_003299.2
UniProt Accession #	P14625; Q96A97
Molecular Weight	Observed: 92 kDa Predicted: 93 kDa
NCBI Official Full Name	endoplasmin
NCBI Official Synonym Full Names	heat shock protein 90 beta family member 1
NCBI Official Symbol	HSP90B1
NCBI Official Synonym Symbols	ECGP; GP96; TRA1; GRP94; HEL35; HEL-S-125m
NCBI Protein Information	endoplasmin
UniProt Protein Name	Endoplasmin
UniProt Gene Name	**HSP90B1**
UniProt Synonym Gene Names	GRP94; TRA1; GRP-94

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/grp94-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321215