


Product datasheet

Anti-GRP94 antibody [CL2647] - C-terminal ab210960

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Overview

Product name	Anti-GRP94 antibody [CL2647] - C-terminal
Description	Mouse monoclonal [CL2647] to GRP94 - C-terminal
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Cow, Dog, Pig, Cynomolgus monkey, Orangutan 
Immunogen	Recombinant fragment (proprietary-tag) corresponding to Human GRP94 aa 650-800 (C terminal). Database link: P14625 Run BLAST with Run BLAST with
Epitope	Binds to an epitope located within the peptide sequence EEEPEETAED as determined by overlapping synthetic peptides.
Positive control	WB: HeLa, A431, HEK293, and HepG2 lysates; ICC: U251, HeLa, A431, MCF7 and U2OS cells; IHC-P: Human liver, Human prostate, Human cortex and Human rectum tissues.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Protein A purified

Clonality	Monoclonal
Clone number	CL2647
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab210960 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 92 kDa.
ICC/IF		Use a concentration of 2 - 10 µg/ml.
IHC-P	★★★★★ (1)	1/5000 - 1/10000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

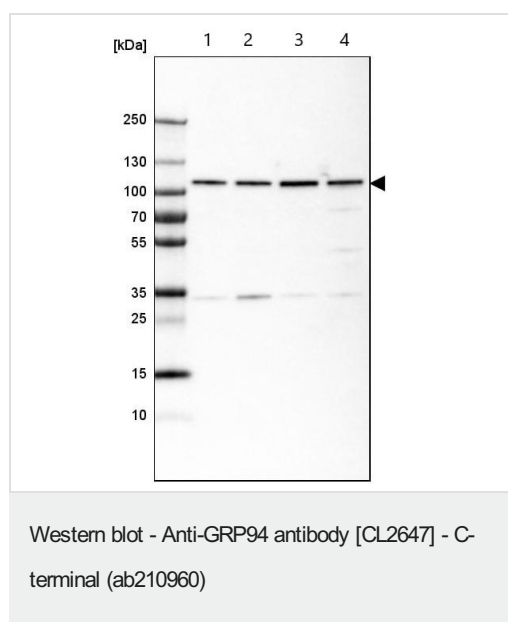
Target

Function Molecular chaperone that functions in the processing and transport of secreted proteins. Functions in endoplasmic reticulum associated degradation (ERAD). Has ATPase activity.

Sequence similarities Belongs to the heat shock protein 90 family.

Cellular localization Endoplasmic reticulum lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



All lanes : Anti-GRP94 antibody [CL2647] - C-terminal (ab210960) at 1 µg/ml

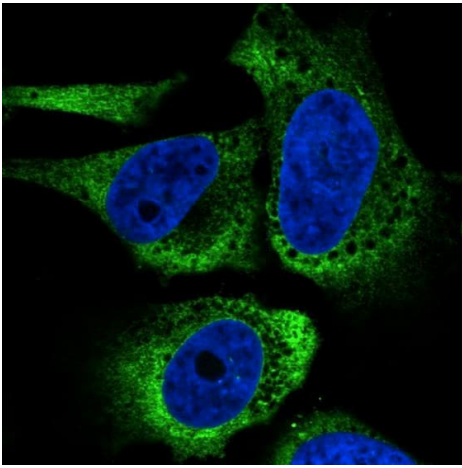
Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : HEK-293 (human epithelial cell line from embryonic kidney) whole cell lysate

Lane 3 : A431 (human epidermoid carcinoma cell line) whole cell lysate

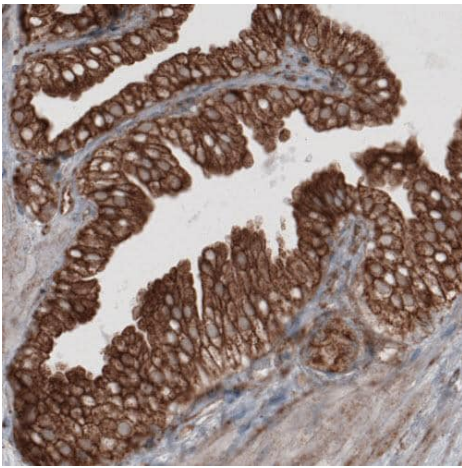
Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Predicted band size: 92 kDa



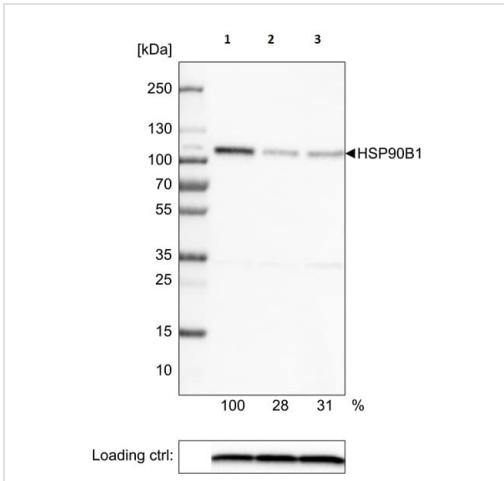
Immunofluorescence analysis of U251 cells labeling GRP94 (green) with ab210960 at 4 $\mu\text{g/ml}$. Nuclei were counterstained with DAPI (blue).

Immunocytochemistry/ Immunofluorescence - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)



Immunohistochemical analysis of formalin-fixed paraffin-embedded Human prostate tissue labeling GRP94 with ab210960 at 1/5000 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)



Western blot - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)

All lanes : Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)

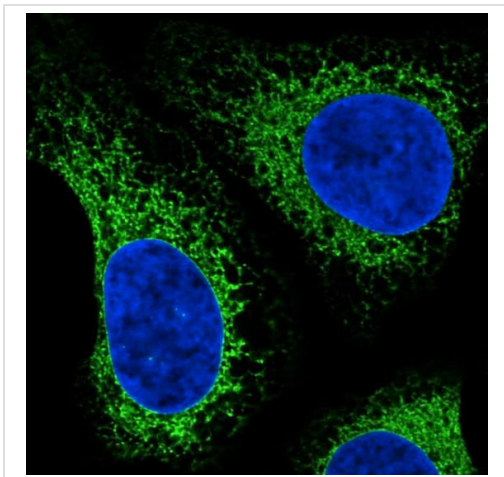
Lane 1 : U-251 cells, transfected with control siRNA

Lane 2 : U-251 cells, transfected with target specific siRNA probe #1

Lane 3 : U-251 cells, transfected with target specific siRNA probe #2

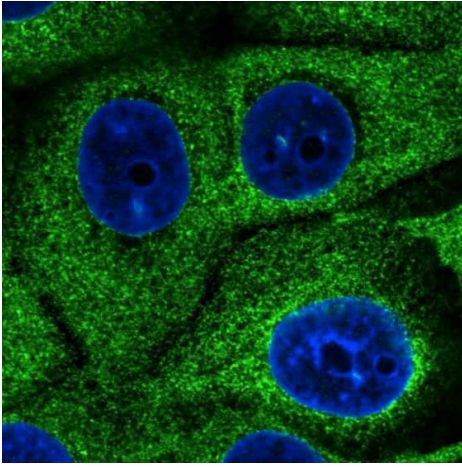
Predicted band size: 92 kDa

Downregulation of antibody signal confirms target specificity. Remaining % intensity, relative control lane, is indicated. Anti-PPIB monoclonal antibody was used as loading control.



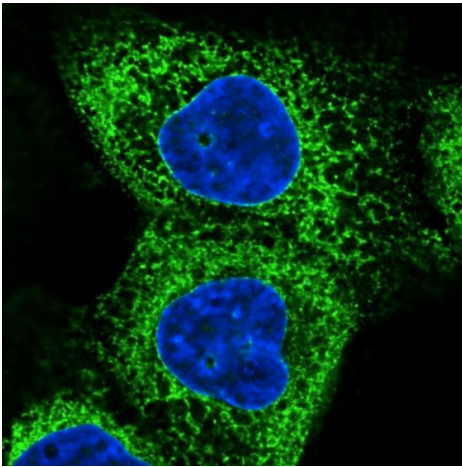
Immunocytochemistry/ Immunofluorescence - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)

Immunofluorescence analysis of U2OS cells labeling GRP94 (green) with ab210960 at 4 µg/ml. Nuclei were counterstained with DAPI (blue).



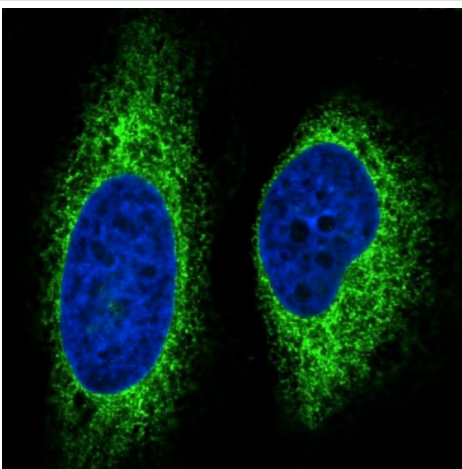
Immunofluorescence analysis of MCF7 cells labeling GRP94 (green) with ab210960 at 4 $\mu\text{g/ml}$. Nuclei were counterstained with DAPI (blue).

Immunocytochemistry/ Immunofluorescence - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)



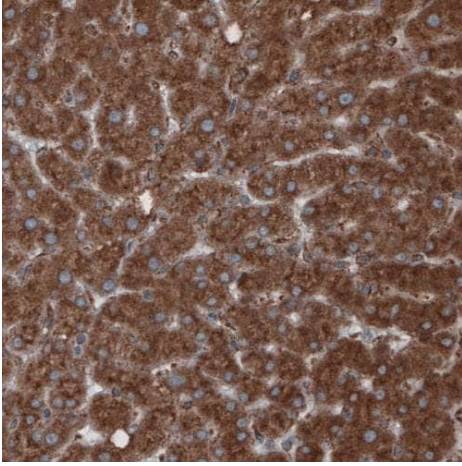
Immunofluorescence analysis of A431 cells labeling GRP94 (green) with ab210960 at 4 $\mu\text{g/ml}$. Nuclei were counterstained with DAPI (blue).

Immunocytochemistry/ Immunofluorescence - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)



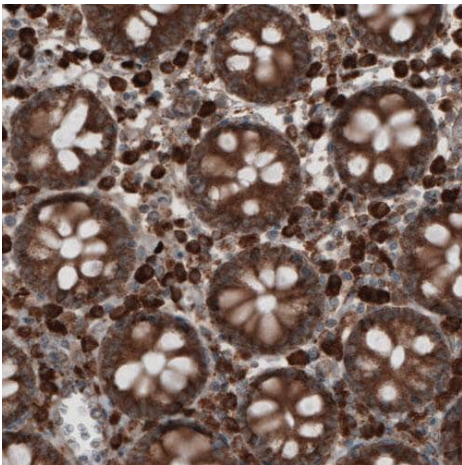
Immunofluorescence analysis of HeLa cells labeling GRP94 (green) with ab210960 at 4 $\mu\text{g/ml}$. Nuclei were counterstained with DAPI (blue).

Immunocytochemistry/ Immunofluorescence - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)



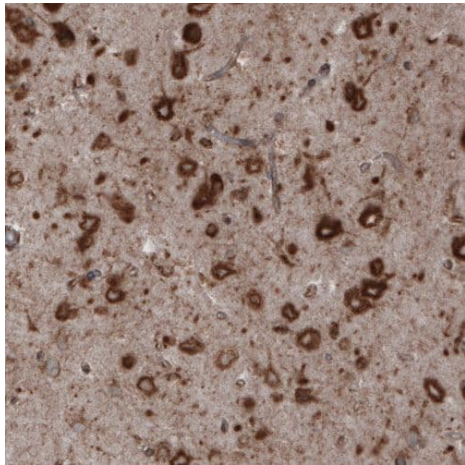
Immunohistochemical analysis of formalin-fixed paraffin-embedded Human liver tissue labeling GRP94 with ab210960 at 1/5000 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)



Immunohistochemical analysis of formalin-fixed paraffin-embedded Human rectum tissue labeling GRP94 with ab210960 at 1/5000 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)



Immunohistochemical analysis of formalin-fixed paraffin-embedded Human cortex tissue labeling GRP94 with ab210960 at 1/5000 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [CL2647] - C-terminal (ab210960)

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