Rabbit anti-Human GRPEL1 Polyclonal Antibody | anti-GRPEL1 antibody

Anti-GRPEL1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19632	**Rabbit**	**Human**	**Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA**

PRODUCT SYNONYMS

GRPEL1; Polyclonal Antibody; Anti-GRPEL1 Antibody Picoband; anti-GRPEL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-GRPEL1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5 ug/ml, Human IHC-P: 2-5 ug/ml, Human ICC/IF: 5 ug/ml, Human FC/FACS: 1-3 ug/1x10^6 cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P) and ICC.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human GRPEL1 recombinant protein (Position: Q90-A217).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES

FCM (Flow Cytometry)
Figure 11. Flow Cytometry analysis of THP-1 cells using anti-GRPEL1 antibody (AAA19632).Overlay histogram showing THP-1 cells stained with AAA19632 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GRPEL1 Antibody (AAA19632, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

IF (Immunofluorescence)
Figure 10. IF analysis of GRPEL1 using anti-GRPEL1 antibody (AAA19632).GRPEL1 was detected in an immunocytochemical section of PC-3 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-GRPEL1 Antibody (AAA19632) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

IHC (Immunohistchemistry)
Figure 9. IHC analysis of GRPEL1 using anti-GRPEL1 antibody (AAA19632).GRPEL1 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GRPEL1 Antibody (AAA19632) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemistry)
Figure 8. IHC analysis of GRPEL1 using anti-GRPEL1 antibody (AAA19632).GRPEL1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GRPEL1 Antibody (AAA19632) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemistry)
Figure 7. IHC analysis of GRPEL1 using anti-GRPEL1 antibody (AAA19632).GRPEL1 was detected in a paraffin-embedded section of human gastric adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GRPEL1 Antibody (AAA19632) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistchemistry)
Figure 6. IHC analysis of GRPEL1 using anti-GRPEL1 antibody (AAA19632).GRPEL1 was detected in a paraffin-embedded section of human gall bladder adenosquamous carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GRPEL1 Antibody (AAA19632) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-GRPEL1 antibody	Essential component of the PAM complex, a complex required for the translocation of transit peptide-containing proteins from the inner membrane into the mitochondrial matrix in an ATP-dependent manner. Seems to control the nucleotide-dependent binding of mitochondrial HSP70 to substrate proteins.
Product Categories/Family for anti-GRPEL1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	24308295
NCBI GeneID	80273
NCBI Accession #	NP_079472.1
NCBI GenBank Nucleotide #	NM_025196.2
UniProt Accession #	Q9HAV7; Q549M6; B2R783
Molecular Weight	24,279 Da

NCBI Official Full Name	grpE protein homolog 1, mitochondrial
NCBI Official Synonym Full Names	GrpE-like 1, mitochondrial (E. coli)
NCBI Official Symbol	GRPEL1
NCBI Official Synonym Symbols	HMGE
NCBI Protein Information	grpE protein homolog 1, mitochondrial; GrpE-like protein cochaperone; mt-GrpE#1
UniProt Protein Name	GrpE protein homolog 1, mitochondrial
UniProt Gene Name	**GRPEL1**
UniProt Synonym Gene Names	GREPEL1
UniProt Entry Name	GRPE1_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/grpel1-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19632