

ALR Polyclonal Antibody

Catalog # AP73712

Specification

ALR Polyclonal Antibody - Product Information

Application WB, IHC-P Primary Accession P55789

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

ALR Polyclonal Antibody - Additional Information

Gene ID 2671

Other Names

GFER; ALR; HERV1; HPO; FAD-linked sulfhydryl oxidase ALR; Augmenter of liver regeneration; hERV1; Hepatopoietin

Dilution

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~ \sim N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

ALR Polyclonal Antibody - Protein Information

Name GFER

Synonyms ALR, HERV1, HPO

Function

[Isoform 1]: FAD-dependent sulfhydryl oxidase that regenerates the redox-active disulfide bonds in CHCHD4/MIA40, a chaperone essential for disulfide bond formation and protein folding in the mitochondrial intermembrane space. The reduced form of CHCHD4/MIA40 forms a transient intermolecular disulfide bridge with GFER/ERV1, resulting in regeneration of the essential disulfide bonds in CHCHD4/MIA40, while GFER/ERV1 becomes re-oxidized by donating electrons to cytochrome c or molecular oxygen.

Cellular Location

[Isoform 1]: Mitochondrion intermembrane space. Mitochondrion

Tissue Location



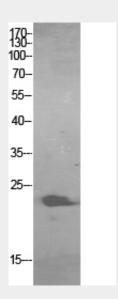
Ubiquitously expressed. Highest expression in the testis and liver and low expression in the muscle

ALR Polyclonal Antibody - Protocols

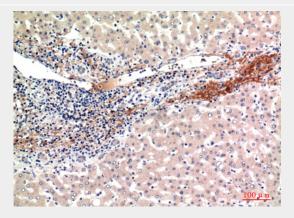
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

ALR Polyclonal Antibody - Images



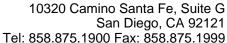
Western Blot analysis of HBE cells using ALR Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

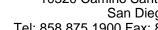


Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

ALR Polyclonal Antibody - Background

Isoform 1: FAD-dependent sulfhydryl oxidase that regenerates the redox-active disulfide bonds in







CHCHD4/MIA40, a chaperone essential for disulfide bond formation and protein folding in the mitochondrial intermembrane space. The reduced form of CHCHD4/MIA40 forms a transient intermolecular disulfide bridge with GFER/ERV1, resulting in regeneration of the essential disulfide bonds in CHCHD4/MIA40, while GFER/ERV1 becomes re-oxidized by donating electrons to cytochrome c or molecular oxygen.