10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GFER Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11198c

Specification

GFER Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P55789
Other Accession	NP_005253
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**67-94**

GFER Antibody (Center) - Additional Information

Gene ID 2671

Other Names
FAD-linked sulfhydryl oxidase ALR, Augmenter of liver regeneration, hERV1, Hepatopoietin, GFER, ALR, HERV1, HPO

Target/Specificity
This GFER antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 67-94 amino acids from the Central region of human GFER.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GFER Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GFER Antibody (Center) - 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

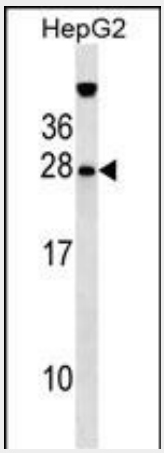
Tissue Location
Ubiquitously expressed. Highest expression in the testis and liver and low expression in the muscle

GFER Antibody (Center) - Protocols

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

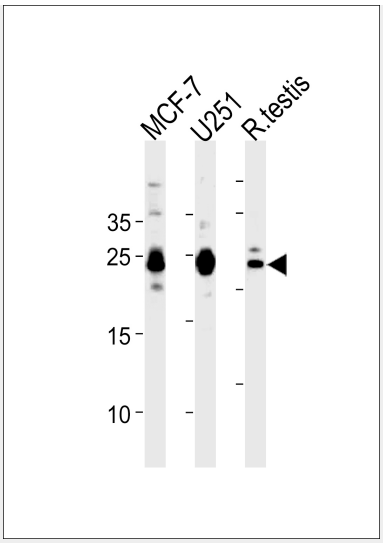
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GFER Antibody (Center) - Images



GFER Antibody (Center) (Cat. #AP11198c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the GFER antibody detected the GFER protein (arrow).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



GFER Antibody (Center) (Cat.# AP11198c) western blot analysis in MCF-7,U251 cell line and rat testis tissue lysates (35ug/lane).This demonstrates the GFER antibody detected the GFER protein (arrow).

GFER Antibody (Center) - Background

The hepatotrophic factor designated augmenter of liver regeneration (ALR) is thought to be one of the factors responsible for the extraordinary regenerative capacity of mammalian liver. It has also been called hepatic regenerative stimulation substance (HSS). The gene resides on chromosome 16 in the interval containing the locus for polycystic kidney disease (PKD1). The putative gene product is 42% similar to the scERV1 protein of yeast. The yeast scERV1 gene had been found to be essential for oxidative phosphorylation, the maintenance of mitochondrial genomes, and the cell division cycle. The human gene is both the structural and functional homolog of the yeast scERV1 gene.

GFER Antibody (Center) - References

Dong, L.Y., et al. Biochem. J. 431(2):277-287(2010) Li, W., et al. FEBS Lett. 584(18):3929-3935(2010) Daithankar, V.N., et al. Biochemistry 49(31):6737-6745(2010) Dayoub, R., et al. Biochem. Biophys. Res. Commun. 395(4):465-470(2010) Chang, J., et al. World J. Gastroenterol. 16(2):193-200(2010)