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GFER Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP11198c

Specification

GFER Antibody (Center) Blocking peptide - Product Information

Primary Accession P55789

GFER Antibody (Center) Blocking peptide - Additional Information

Gene ID 2671

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GFER Antibody (Center) Blocking peptide - 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

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GFER Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

GFER Antibody (Center) Blocking peptide - Images

GFER Antibody (Center) Blocking peptide - Background

The hepatotrophic factor designated augmenter of liverregeneration (ALR) is thought to be one of the factors responsiblefor the extraordinary regenerative capacity of mammalian liver. Ithas also been called hepatic regenerative stimulation substance(HSS). The gene resides on chromosome 16 in the interval containingthe locus for polycystic kidney disease (PKD1). The putative geneproduct is 42% similar to the scERV1 protein of yeast. The yeastscERV1 gene had been found to be essential for oxidativephosphorylation, the maintenance of mitochondrial genomes, and thecell division cycle. The human gene is both the structural andfunctional homolog of the yeast scERV1 gene.

GFER Antibody (Center) Blocking peptide - 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)