GFER Antibody

PRODUCT OVERVIEW

Product Name	GFER, Antibody
Full Product Name	GFER Antibody
Product Gene Name	anti-GFER antibody
Molecular Weight	15,029 Da
OMIM	600924
3D Structure	ModBase 3D Structure for P55789
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-GFER antibody	MBS8505507 is an antibody targeting GFER. Also known as GFER Antibody.
Other Notes	Small volumes of anti-GFER antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GFER. It may not necessarily be applicable to this product.

NCBI GI #	54112432
NCBI GeneID	2671
NCBI Accession #	NP_005253.3
UniProt Primary Accession #	P55789
UniProt Secondary Accession #	Q53YM6; Q8TAH6; Q9H290; Q9UK40
UniProt Related Accession #	P55789
GenBank Nucleotide #	NM_005262.2
NCBI Official Full Name	FAD-linked sulfhydryl oxidase ALR
NCBI Official Synonym Full Names	growth factor, augmenter of liver regeneration
NCBI Official Symbol	GFER
NCBI Official Synonym Symbols	ALR; HPO; HSS; ERV1; HPO1; HPO2; HERV1
UniProt Protein Name	FAD-linked sulfhydryl oxidase ALR
UniProt Synonym Protein Names	Augmenter of liver regeneration; hERV1; Hepatopoietin
Protein Family	FAD-linked sulfhydryl oxidase
UniProt Gene Name	GFER
UniProt Synonym Gene Names	ALR; HERV1; HPO; hERV1
NCBI Protein Information	FAD-linked sulfhydryl oxidase ALR

NCBI Summary for GFER	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. [provided by RefSeq, Jul 2008]
UniProt Comments for GFER	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.
Research Articles on GFER	**1.** IKBKE plays a pivotal role in regulating cell proliferation, invasion and epithelial-mesenchymal transition of malignant glioma cells in vitro and in vivo by impacting on the Hippo pathway.
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