

For Research Use Only

ALR Recombinant antibody

Catalog Number: 84972-4-RR



Basic Information

Catalog Number:

84972-4-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1840

GenBank Accession Number:

BC028348

GeneID (NCBI):

2671

UNIPROT ID:

P55789

Full Name:

growth factor, augmentor of liver regeneration

Calculated MW:

15 kDa, 23 kDa

Observed MW:

23-25 kDa

Purification Method:

Protein A purification

CloneNo.:

242557G3

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : A375 cells, A431 cells, HepG2 cells, mouse liver tissue, rat liver tissue

Background Information

GFER (FAD-linked sulphydryl oxidase) is also named as ALR, HERV1, HPO. It plays an important role in the disulfide relay system (DRS) in human mitochondria. The GFER gene codes for 2 distinct isoforms that are probably synthesized from the same mRNA with the use of different initiation codons. The long isoform (205 amino acids, 23/21 kD) is located mainly in the mitochondrial intermembrane space and exists under nonreducing and nondenaturing conditions as a homodimer and a heterodimer. The shorter isoform (125 amino acids, 15 kD), which lacks 80 amino acids at its N terminus compared to the longer isoform, is present predominantly in the nucleus (PMID: 19409522, 24880092, 21152698).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

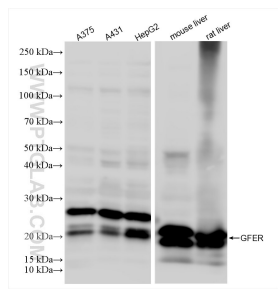
For technical support and original validation data for this product please contact:

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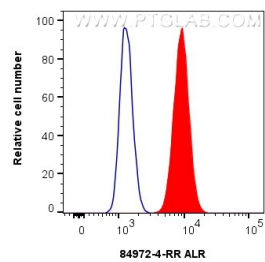
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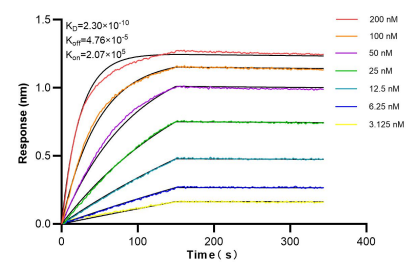
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84972-4-RR (GFER antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug ALR Recombinant antibody (84972-4-RR, Clone:242557G3) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 84972-4-RR against Human ALR were performed. The affinity constant is 0.23 nM.