For Research Use Only

ALR Polyclonal antibody

Catalog Number:11293-1-AP Featured Product 29 Publications

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Basic Information

Catalog Number:
11293-1-AP

Size:
650 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1840

GenBank Accession Number:
BC028348

GeneID (NCBI):
2671

UNIPROT ID:
P55789

Full Name:
growth factor, augmenter of liver regeneration

Calculated MW:
15 kDa, 23 kDa

Observed MW:
23-25 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-P, IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

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

IP : mouse liver tissue,

IHC : human liver cancer tissue, human liver tissue, human testis tissue, human colon cancer tissue

IF-P : mouse kidney tissue,

Background Information

GFER (FAD-linked sulfhydryl 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Wei-Lun Ai	30251695	Biochim Biophys Acta Mol Basis Dis	WB,IF
Chao Zhang	28646508	Hepatology	WB
Jing Zhang	34655600	Exp Cell Res	

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

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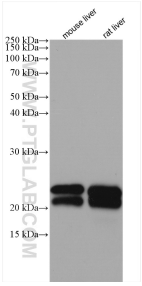
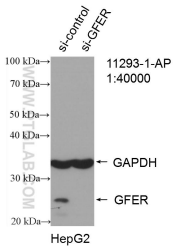
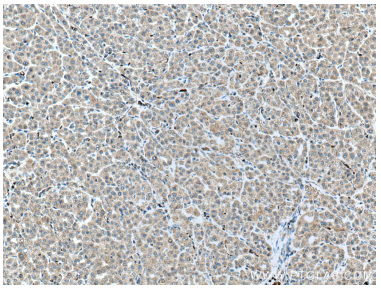
Selected Validation Data



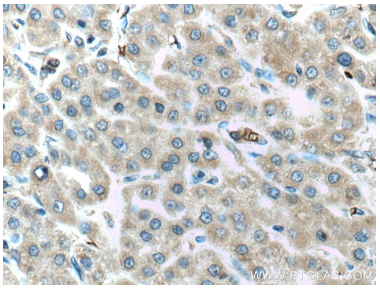
Various lysates were subjected to SDS PAGE followed by western blot with 11293-1-AP (ALR antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



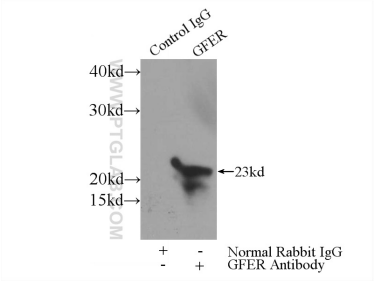
WB result of ALR antibody (11293-1-AP; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ALR transfected HepG2 cells.



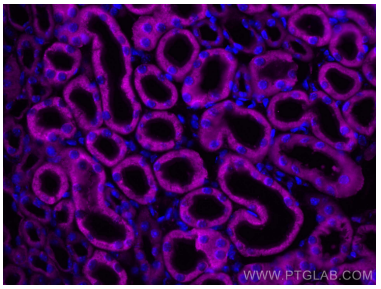
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11293-1-AP (ALR antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11293-1-AP (ALR antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ALR (IP:11293-1-AP, 3ug; Detection:11293-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using ALR antibody (11293-1-AP) at dilution of 1:200 and CoraLite®647-conjugated F(ab.