**Basic Information**

- **Catalog Number:** 11293-1-AP
- **Size:** 54 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Affinity purification
- **Immunogen Catalog Number:** AG1840
- **GenBank Accession Number:** BC025348
- **GenetO (NCBI):** 2671
- **Full Name:** growth factor, augmenter of liver regeneration
- **Calculated MW:** 15 kDa, 23 kDa
- **Observed MW:** 23-25 kDa
- **Recommended Dilutions:**
  - WB: 1:1000-1:8000
  - IP: 0.5-4.0 μg for IP and 1:500-1:2000 for WB
  - IHC: 1:50-1:500

**Applications**

- **Tested Applications:** IHC, IP, WB, ELISA
- **Cited Applications:** FC, IF, IHC, WB
- **Species Specificity:** human, mouse
- **Cited Species:** human, mouse

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

**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**

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<th>Author</th>
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<tr>
<td>Wei-Lun Ai</td>
<td>30251695</td>
<td>Biochim Biophys Acta Mol Basis Dis</td>
<td>WB, IF</td>
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<td>Tibor Balogh</td>
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<td>Xin Wu</td>
<td>27136073</td>
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**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**
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 retrieved with Tris-EDTA buffer.

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 retrieved with Tris-EDTA buffer.

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