For Research Use Only

ERO1LB Polyclonal antibody

Catalog Number:18312-1-AP

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
18312-1-AP

Size:
800 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC032823

GeneID (NCBI):
56605

UNIPROT ID:
Q86YB8

Full Name:
ERO1-like beta (S. cerevisiae)

Calculated MW:
54 kDa

Observed MW:
54 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IHC 1:20-1:200

Applications

Tested Applications:
IHC, WB,ELISA

Species Specificity:
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 : human brain tissue, mouse brain tissue, rat brain tissue

IHC : human pancreas tissue,

Background Information

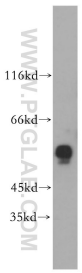
ERO1LB is an essential oxidoreductase that oxidizes proteins in the endoplasmic reticulum to produce disulfide bonds. It acts by oxidizing directly P4HB/PDI isomerase through a direct disulfide exchange. It does not act as a direct oxidant of folding substrate, but relies on P4HB/PDI to transfer oxidizing equivalent. Associates with ERP44 but not with GRP54, demonstrating that it does not oxidize all PDI related proteins and can discriminate between PDI and related proteins. Its reoxidation probably involves electron transfer to molecular oxygen via FAD. Glutathione may be required to regulate its activity in the endoplasmic reticulum. It may be responsible for a significant proportion of reactive oxygen species (ROS) in the being a source of oxidative stress. It is required for the folding of cell, thereby being a source of oxidative stress. This antibody has no cross reaction to ERO1L.

Storage

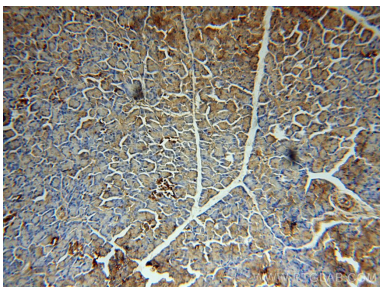
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

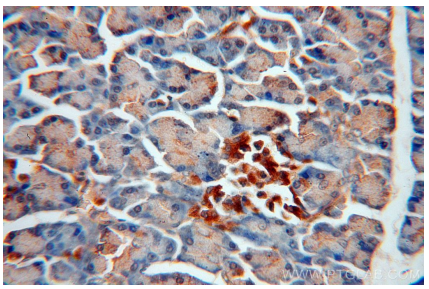
Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 18312-1-AP (ERO1LB antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas using 18312-1-AP (ERO1LB antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas using 18312-1-AP (ERO1LB antibody) at dilution of 1:100 (under 40x lens).