For Research Use Only

PECR Polyclonal antibody

Catalog Number:14901-1-AP Featured Product 2 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
14901-1-AP

Size:
150ul , Concentration: 400 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6693

GenBank Accession Number:
BC002529

GeneID (NCBI):
55825

UNIPROT ID:
Q9BY49

Full Name:
peroxisomal trans-2-enoyl-CoA reductase

Calculated MW:
33 kDa

Observed MW:
33 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:12000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse

Cited Species:
human

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 : HepG2 cells, human testis tissue, human kidney tissue, mouse liver tissue

IP : mouse liver tissue,

IHC : human liver cancer tissue,

Background Information

Peroxisomal trans-2-enoyl-CoA reductase (PECR) is also called TERP and TECR, which is located on chromosome q35 with 86627 bases. It can participate in carbon chain elongation in fatty acid metabolism and catalyze the last reaction of four long chain fatty acid elongation cycles. Each cycle of PECR adds two carbons to the long chain and very long chain fatty acid (VLCFA) chains, reducing the intermediate of trans-2,3-enoyl coenzyme A fatty acid to acyl coenzyme A, which can further extend the carbon chain by entering a new elongation cycle. Meanwhile, PECR is a peroxisome protein involved in fatty acid synthesis and plays an important role in milk fat synthesis. The molecular mass of PECR is 33 kDa. (PMID: 31467878)

Notable Publications

Author	Pubmed ID	Journal	Application
Iris D Montes	39386596	bioRxiv	WB
Qingqing Luo	36724637	Acta Histochem	WB,IHC

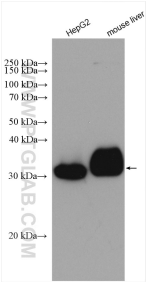
Storage

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

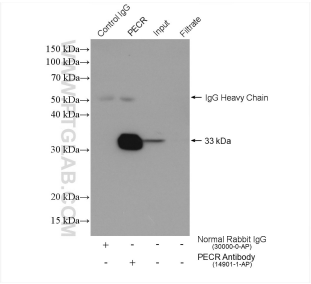
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

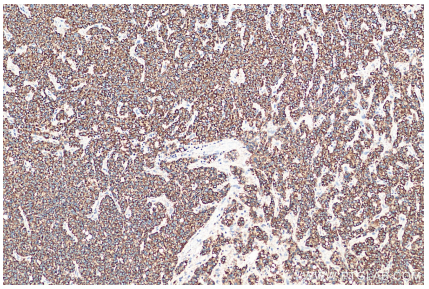
Selected Validation Data



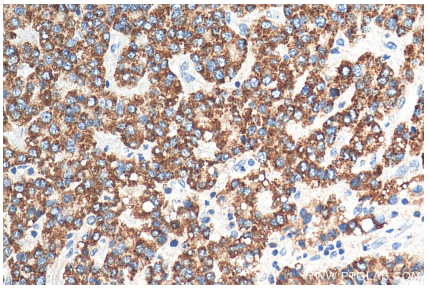
Various lysates were subjected to SDS PAGE followed by western blot with 14901-1-AP (PECR antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



IP result of anti-PECR (IP:14901-1-AP, 4ug; Detection:14901-1-AP 1:2000) with mouse liver tissue lysate 3040 ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14901-1-AP (PECR 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 14901-1-AP (PECR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).