

THEM2 Polyclonal antibody

Catalog Number: 16782-1-AP

Basic Information

Catalog Number:

16782-1-AP

Size:

350 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10212

GenBank Accession Number:

BC000894

GeneID (NCBI):

55856

UNIPROT ID:

Q9NPJ3

Full Name:

thioesterase superfamily member 2

Calculated MW:

140 aa, 15 kDa

Observed MW:

16 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:5000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, 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: HeLa cells, HepG2 cells, mouse kidney tissue, mouse liver tissue

IP: HeLa cells,

IHC: human lung cancer tissue,

IF/ICC: HepG2 cells,

Background Information

Them2 (also named Acot13) is a homotetrameric fatty acyl-CoA thioesterase. Them2 is enriched in liver and oxidative tissues, including BAT, and is primarily associated with mitochondria.

Storage

Storage:

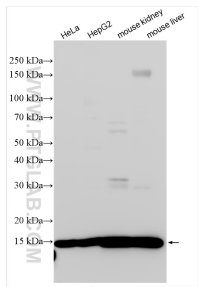
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

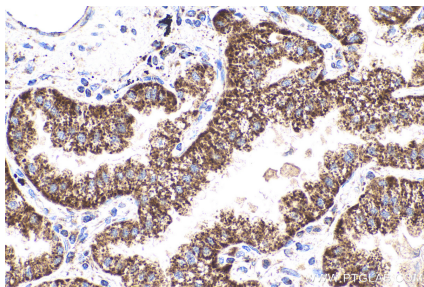
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

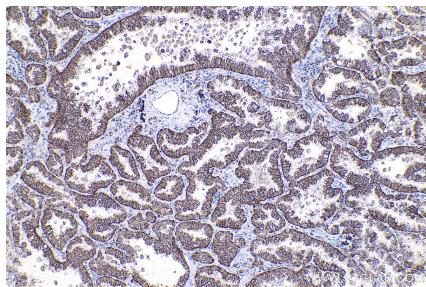
Selected Validation Data



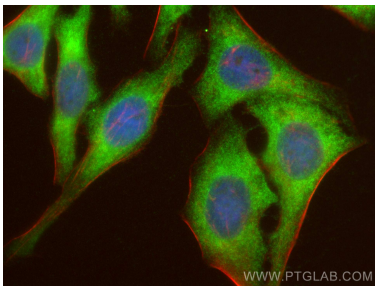
Various lysates were subjected to SDS PAGE followed by western blot with 16782-1-AP (THEM2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



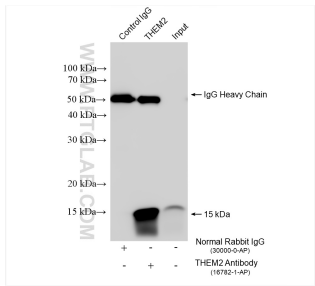
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16782-1-AP (THEM2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16782-1-AP (THEM2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using THEM2 antibody (16782-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).



IP result of anti-THEM2 (IP:16782-1-AP, 4ug; Detection:16782-1-AP 1:2000) with HeLa cells lysate 1085 ug.