

Product datasheet for **TA322465S**

acyl CoA Thioesterase 2 (ACOT2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Mouse kidney and liver tissue IHC: 15-50 Positive control: Human colon cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 169-468 amino acids of human acyl-CoA thioesterase 2
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	53 kDa
Gene Name:	acyl-CoA thioesterase 2
Database Link:	NP_006812 Entrez Gene 171210 Mouse Entrez Gene 10965 Human P49753



[View online »](#)

Background:

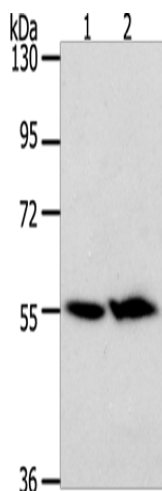
This gene encodes a member of the acyl-CoA thioesterase protein family, and is one of four acyl-CoA hydrolase genes located in a cluster on chromosome 14. Alternative splicing results in multiple transcript variants. Acyl-CoA thioesterases, such as ACOT2, are a group of enzymes that hydrolyze Coenzyme A (CoA) esters, such as acyl-CoAs, bile CoAs, and CoA esters of prostaglandins, to the corresponding free acid and CoA. ACOT2 shows high acyl-CoA thioesterase activity on medium- and long-chain acyl-CoAs, with an optimal pH of 8.5. It is most active on myristoyl-CoA but also shows high activity on palmitoyl-CoA, stearoyl-CoA, and arachidoyl-CoA.

Synonyms:

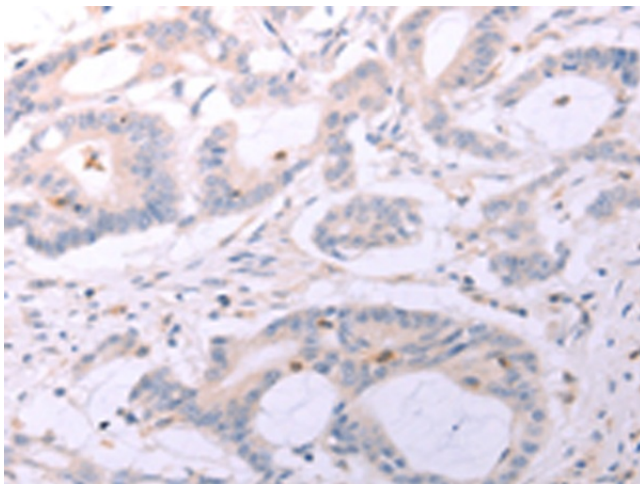
CTE-IA; CTE1A; MTE1; PTE2; PTE2A; ZAP128

Protein Pathways:

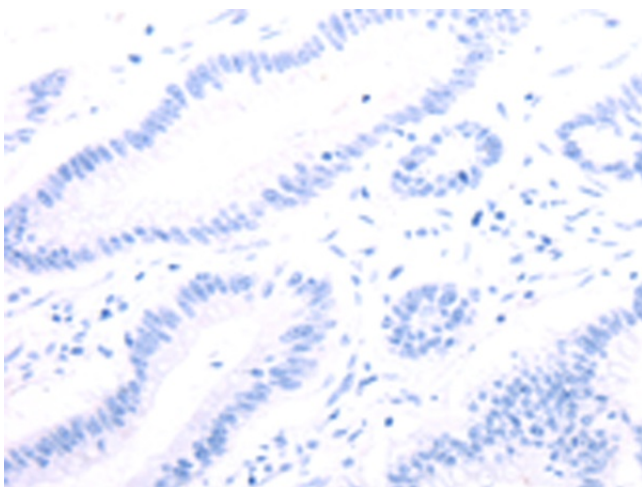
Biosynthesis of unsaturated fatty acids

Product images:

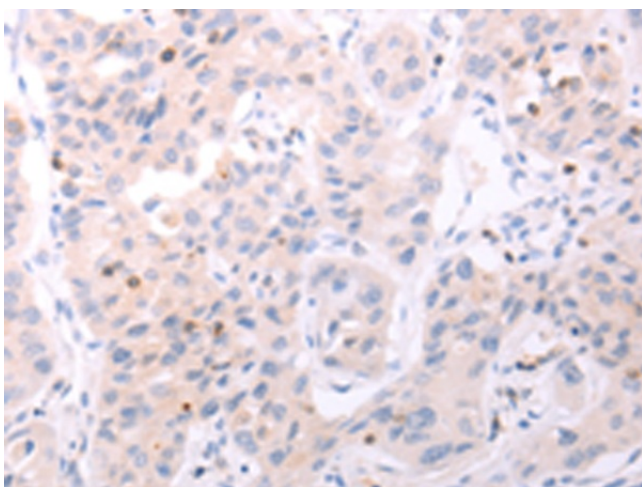
Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane 1-2: Mouse kidney tissue
Mouse liver tissue
Primary antibody: [TA322465] (ACOT2 Antibody)
at dilution 1/200
Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution
Exposure time: 5 minutes



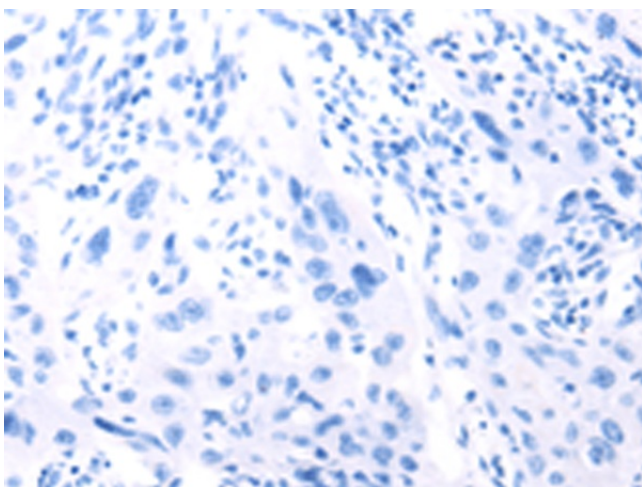
Immunohistochemistry of paraffin-embedded
Human colon cancer tissue using [TA322465]
(ACOT2 Antibody) at dilution 1/25 (Original
magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using [TA322465] (ACOT2 Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using [TA322465] (ACOT2 Antibody) at dilution 1/25 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using [TA322465] (ACOT2 Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: $\times 200$)