

## Product datasheet for **TA322466**

### acyl CoA Thioesterase 2 (ACOT2) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1:500-2000, WB: 1:100-500, IHC: 1:15-50
Reactivity:	Human, Mouse, Rat
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 <sub>3</sub> , 50% glycerol
Concentration:	lot specific
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:	<a href="#">NP_006812</a> <a href="#">Entrez Gene 171210 Mouse</a> <a href="#">Entrez Gene 192272 Rat</a> <a href="#">Entrez Gene 10965 Human</a> <a href="#">P49753</a>

**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.

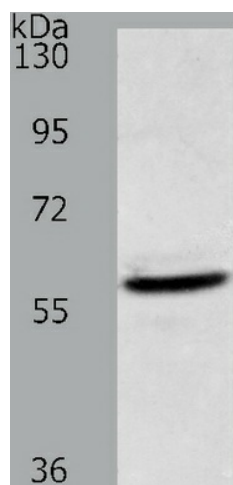


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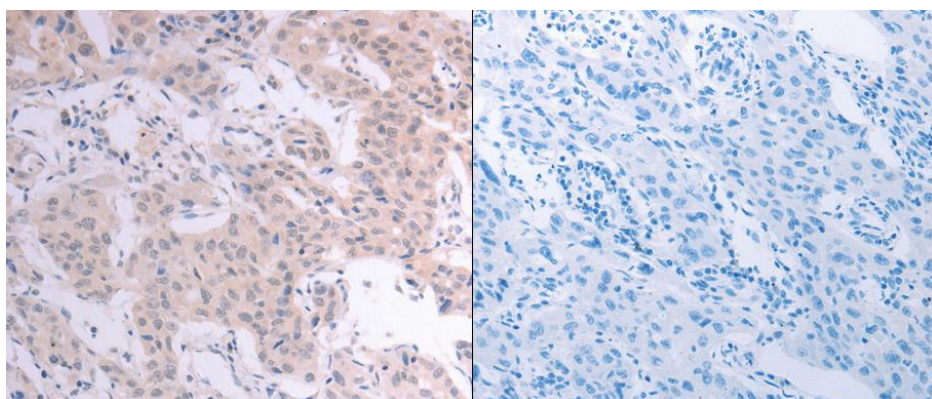
**Synonyms:** CTE-IA; CTE1A; MTE1; PTE2; PTE2A; ZAP128

**Protein Pathways:** Biosynthesis of unsaturated fatty acids

**Product images:**



Predicted band size: 53 kDa. Positive control: MCF7 cell lysate. Recommended dilution: 1/100-500. (Gel: 8%SDS-PAGE Lysate: 40 ug Primary antibody: 1/150 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 30 minutes)



Predicted cell location: Cytoplasm. Positive control: Human lung cancer tissue. Recommended dilution: 1/15-50 The image on the left is immunohistochemistry of paraffin-embedded human lung cancer using ACOT2 antibody at dilution 1/15, on the right is treated with the fusion protein. (Original magnification: x 200)