



# ACOT8 Polyclonal Antibody

|                           |   |
|---------------------------|---|
| <b>Catalog No</b>         | YP-Ab-02472   |
| <b>Isotype</b>            | IgG   |
| <b>Reactivity</b>         | Human;Rat;Mouse;  |
| <b>Applications</b>       | WB;IHC;IF;ELISA   |
| <b>Gene Name</b>          | ACOT8   |
| <b>Protein Name</b>       | Acyl-coenzyme A thioesterase 8  |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human ACOT8. AA range:131-180   |
| <b>Specificity</b>        | ACOT8 Polyclonal Antibody detects endogenous levels of ACOT8 protein.   |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source</b>             | Polyclonal, Rabbit,IgG  |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| <b>Dilution</b>           | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.  |
| <b>Concentration</b>      | 1 mg/ml   |
| <b>Purity</b>             | ≥90%  |
| <b>Storage Stability</b>  | -20°C/1 year  |
| <b>Synonyms</b>           | ACOT8; ACTEIII; PTE1; PTE2; Acyl-coenzyme A thioesterase 8; Acyl-CoA thioesterase 8; Choloyl-coenzyme A thioesterase; HIV-Nef-associated acyl-CoA thioesterase; PTE-2; Peroxisomal acyl-coenzyme A thioester hydrolase 1; PTE-1; Peroxisomal lon  |
| <b>Observed Band</b>      | 36kD  |
| <b>Cell Pathway</b>       | Peroxisome matrix . Predominantly localized in the peroxisome but a localization to the cytosol cannot be excluded. .   |
| <b>Tissue Specificity</b> | Detected in a T-cell line (at protein level). Ubiquitous (PubMed:9153233, PubMed:9299485).  |
| <b>Function</b>           | catalytic activity:Choloyl-CoA + H(2)O = cholate + CoA.,function:Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH. May mediate Nef-induced down-regulation of CD4. Major thioesterase in peroxisomes. Competes with BAAT (Bile acid CoA: amino acid N-acyltransferase) for bile acid-CoA substrate (such as chenodeoxycholoyl-CoA). Shows a preference for medium-length fatty acyl-CoAs (By similarity). May be involved in the metabolic regulation of peroxisome proliferation.,induction:Regulated by peroxisome proliferator (such as Clofibrate), via the peroxisome proliferator-activated |



receptors (PPARs).,similarity:Belongs to the C/M/P thioester hydrolase family.,subunit:Interacts with HIV-1 Nef.,tissue specificity:Detect

**Background**

The protein encoded by this gene is a peroxisomal thioesterase that appears to be involved more in the oxidation of fatty acids rather than in their formation. The encoded protein can bind to the human immunodeficiency virus-1 protein Nef, and mediate Nef-induced down-regulation of CD4 in T-cells. [provided by RefSeq, Oct 2010],

**matters needing attention**

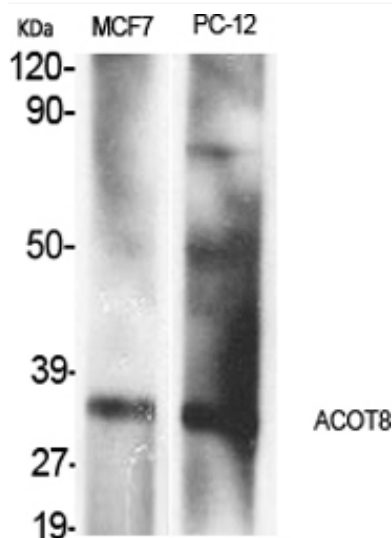
Avoid repeated freezing and thawing!

**Usage suggestions**

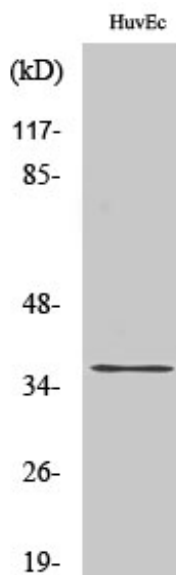
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



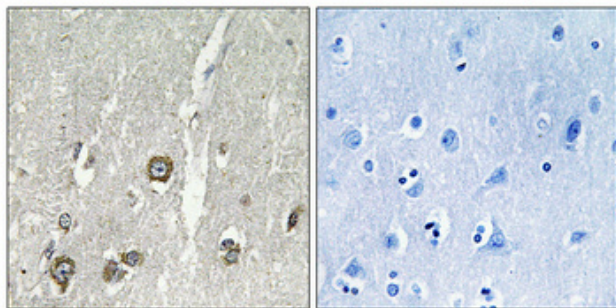
## Products Images



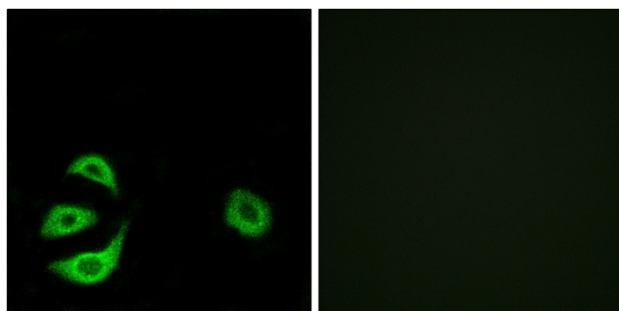
Western Blot analysis of various cells using ACOT8 Polyclonal Antibody



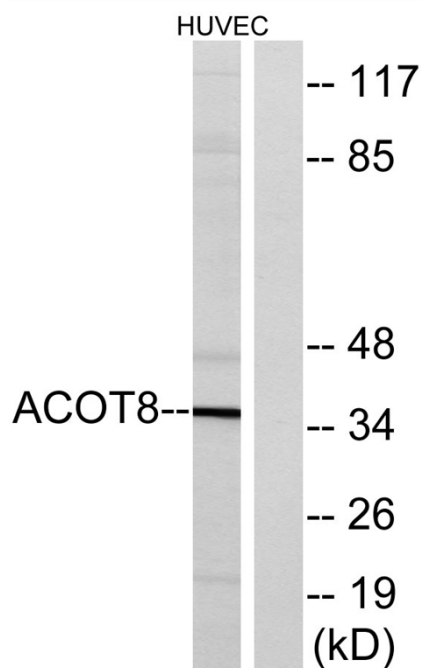
Western Blot analysis of HuvEc cells using ACOT8 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunofluorescence analysis of A549 cells, using ACOT8 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HUVEC cells, using ACOT8 Antibody. The lane on the right is blocked with the synthesized peptide.