

For Research Use Only

# ACOT7 Polyclonal antibody

Catalog Number:15972-1-AP

Featured Product

10 Publications



## Basic Information

**Catalog Number:**

15972-1-AP

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG8759

**GenBank Accession Number:**

BC017365

**GeneID (NCBI):**

11332

**UNIPROT ID:**

O00154

**Full Name:**

acyl-CoA thioesterase 7

**Calculated MW:**

370 aa, 40 kDa

**Observed MW:**

37 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB: 1:3000-1:10000

## Applications

**Tested Applications:**

WB, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, bovine

**Positive Controls:**

WB : HEK-293T cells, mouse brain tissue, Jurkat cells, rat brain tissue

## Background Information

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 (PubMed:10578051). Acyl-coenzyme A thioesterase 7/ACOT7 preferentially hydrolyzes palmitoyl-CoA, but has a broad specificity acting on other fatty acyl-CoAs with chain-lengths of C8-C18 (PubMed:10578051). May play an important physiological function in brain (PubMed:10578051). ACOT7 has 7 isoforms between 27-40 kDa, we can detect a band at 37 kDa. ACOT7 is high homology with ACOT7L, this antibody may also detect ACOT7L.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shengkai Pan	31227702	Nat Commun	
Xingming Xie	34993160	J Hepatocell Carcinoma	WB,IHC
Guang Zhang	36036847	In Vitro Cell Dev Biol Anim	WB

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

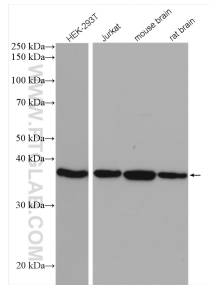
T: 4006900926

E: Proteintech-CN@ptglab.com

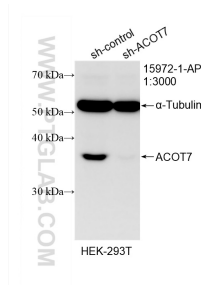
W: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15972-1-AP (ACOT7 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of ACOT7 antibody (15972-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACOT7 transfected HEK-293T cells.