

For Research Use Only

# ACOT7 Polyclonal antibody

Catalog Number: 15972-1-AP

4 Publications



## Basic Information

<b>Catalog Number:</b> 15972-1-AP	<b>GenBank Accession Number:</b> BC017365	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 300 µg/ml by Nanodrop and 173 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 11332	<b>Recommended Dilutions:</b> WB 1:3000-1:10000
<b>Source:</b> Rabbit	<b>Full Name:</b> acyl-CoA thioesterase 7	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 370 aa, 40 kDa	
<b>Immunogen Catalog Number:</b> AG8759	<b>Observed MW:</b> 37 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HEK-293T cells, mouse brain tissue, human brain tissue, Jurkat cells, rat brain tissue
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	

## 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

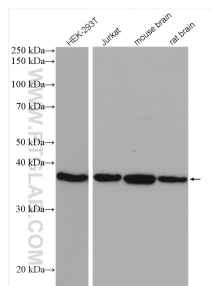
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

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