

For Research Use Only

# ACOT7 Monoclonal antibody, PBS Only



Catalog Number: 68140-1-PBS

## Basic Information

<b>Catalog Number:</b> 68140-1-PBS	<b>GenBank Accession Number:</b> BC017365	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 11332	<b>CloneNo.:</b> 1E9C7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O00154	
<b>Isotype:</b> IgG2a	<b>Full Name:</b> acyl-CoA thioesterase 7	
<b>Immunogen Catalog Number:</b> AG8975	<b>Calculated MW:</b> 370 aa, 40 kDa	
	<b>Observed MW:</b> 37 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
Human, Rat, Mouse, Rabbit, Pig

## Background Information

Acyl-CoA thioesterases (ACOTs) are enzymes that catalyze hydrolysis of fatty acyl-CoAs to free fatty acids and CoA-SH. ACOTs are expressed ubiquitously in prokaryotes and eukaryotes (PMID: 11755680). ACOT7 also known as BACH, CTE-II, ACT, ACH1, BACHa, is one of the most extensively studied ACOTs as a major isoform of the ACOT family (PMID: 17563367). The enzyme is localized to the cytosol and is highly expressed in brain tissue and testis tissue, showing a preference for long-chain acyl-CoA substrates with fatty acid chains of 8-16 carbon atoms (C8-C16) (PMID: 28518146). It has been identified that ACOT7 plays a role in neurotoxic prevention and is a candidate drug target in inflammatory disease (PMID: 17563367, 23459938, 10509865). ACOT7 has 7 isoforms as molecular between 27-40 kDa, it may also form dimer (~70 kDa) (PMID: 20470824).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

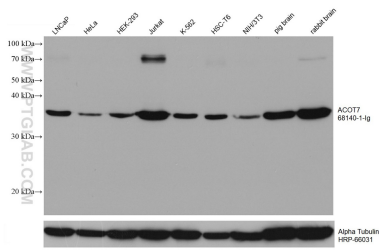
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68140-1-Ig (ACOT7 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 68140-1-PBS in a different storage buffer formulation.