

For Research Use Only

ACOT7 Monoclonal antibody

Catalog Number: 68140-1-Ig



Basic Information

Catalog Number: 68140-1-Ig	GenBank Accession Number: BC017365	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 11332	CloneNo.: 1E9C7
Source: Mouse	Full Name: acyl-CoA thioesterase 7	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG2a	Calculated MW: 370 aa, 40 kDa	
Immunogen Catalog Number: AG8975	Observed MW: 37 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, pig brain tissue, rabbit brain tissue
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

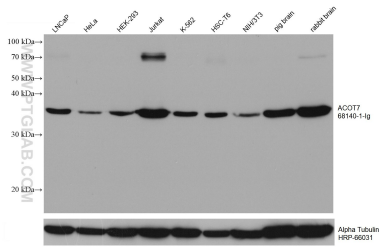
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.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.