

For Research Use Only

ACOT7 Monoclonal antibody

Catalog Number: 68140-1-Ig



Basic Information

Catalog Number:

68140-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG8975

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:

Protein A purification

CloneNo.:

1E9C7

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human, Rat, Mouse, Rabbit, Pig

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

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

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

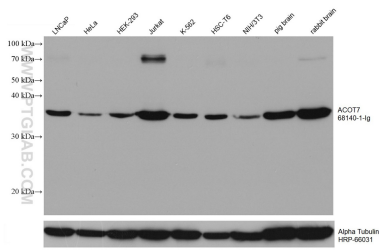
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.