

# 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

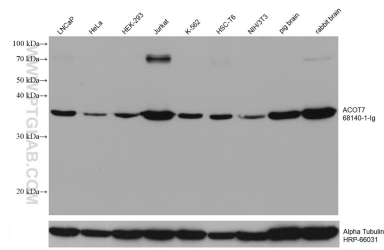
For technical support and original validation data for this product please contact:

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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.