## For Research Use Only

## MBOAT7 Recombinant antibody

Catalog Number:83546-3-RR



**Purification Method:** 

**Basic Information** 

Catalog Number: GenBank Accession Number:

83546-3-RR BC006309 Protein A purfication

GeneID (NCBI): CloneNo.: 100ul, Concentration: 1000 ug/ml by 79143 240505E8

Nanodrop: **UNIPROT ID:** Recommended Dilutions: Q96N66 IHC 1:250-1:1000 Rabbit IF/ICC 1:125-1:500 Full Name:

Isotype: membrane bound O-acyltransferase

domain containing 7 IgG Immunogen Catalog Number: Calculated MW: AG24466 472 aa. 53 kDa

**Applications** 

**Tested Applications:** 

IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

**Background Information** 

MBOAT7 (membrane-bound O-acyltransferase domain containing 7), also known as LPIAT, LENG4, or BB1, belongs to the MBOAT superfamily. MBOAT7 acylates lyso-phosphatidylinositol (lyso-PI) with a rachidonyl-CoA and is involved in phosphatidylinositol acyl-chain remodeling in the Lands cycle (PMID: 30959108; PMID: 35509994). MBOAT7 deficiency in humans leads to developmental disorders of the central nervous system, with intellectual disability, epilepsy, and autism spectrum disorder (PMID: 37316513). The calculated molecular weight of MBOAT7 is 53 kDa. This antibody can recognize the 45 kDa isoform of MBOAT7.

Positive Controls:

IF/ICC: HuH-7 cells,

IHC: mouse testis tissue,

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

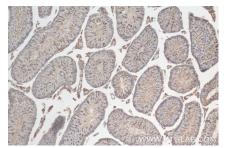
\*\*\* 20ul sizes contain 0.1% BSA

in USA), or 1(312) 455-8498 (outside USA)

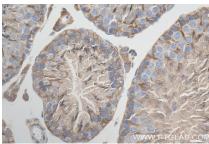
E: proteintech@ptglab.com W: ptglab.com

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

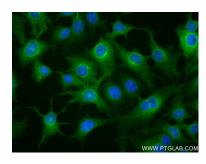
## **Selected Validation Data**



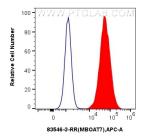
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 83546-3-RR (MBOAT7 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



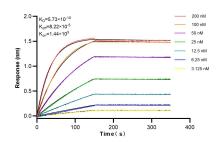
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 83546-3-RR (MBOAT7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HuH-7 cells using MBOAT7 antibody (83546-3-RR, Clone: 240505E8) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10^6 A549 cells were intracellularly stained with 0.25 ug MBOAT7 Recombinant antibody (83546-3-RR, Clone:240505E8) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLL) kinetic assays of 83546-3-RR against Human MBOAT7 were performed. The affinity constant is 0.573 nM.