

For Research Use Only

MBOAT7 Recombinant antibody, PBS Only

Catalog Number: 83546-3-PBS



Basic Information

Catalog Number:

83546-3-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24466

GenBank Accession Number:

BC006309

GeneID (NCBI):

79143

UNIPROT ID:

Q96N66

Full Name:

membrane bound O-acyltransferase domain containing 7

Calculated MW:

472 aa, 53 kDa

Purification Method:

Protein A purification

CloneNo.:

240505E8

Recommended Dilutions:

IF/ICC 1:125-1:500

Applications

Tested Applications:

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

Species Specificity:

human

Positive Controls:

IF/ICC : HuH-7 cells,

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 arachidonyl-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.

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:

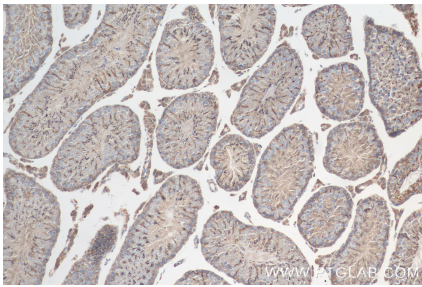
T: 4006900926

E: Proteintech-CN@ptglab.com

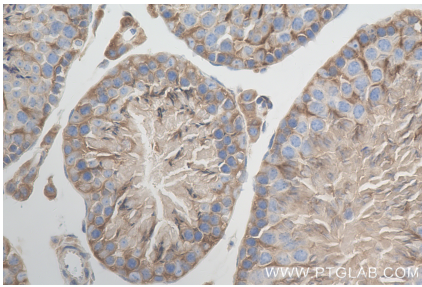
W: ptgcn.com

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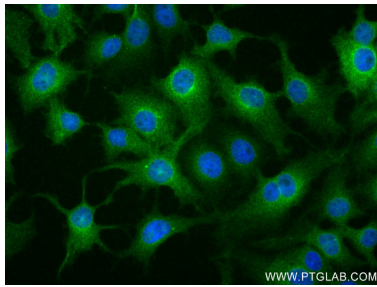
Selected Validation Data



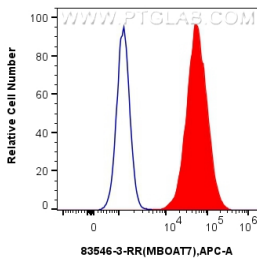
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 83546-3-RR (MBOAT7 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83546-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded 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). This data was developed using the same antibody clone with 83546-3-PBS in a different storage buffer formulation.



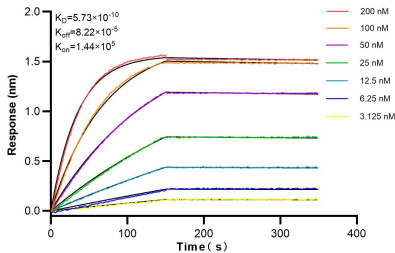
Immunofluorescent analysis of (4% PFA) fixed HuH-7 cells using MBOAT7 antibody (83546-3-RR, Clone: 240505E8) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83546-3-PBS in a different storage buffer formulation.



1x10⁶ 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). This data was developed using the same antibody clone with 83546-3-PBS in a different storage buffer formulation.



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



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