For Research Use Only

## MBOAT7 Recombinant antibody, PBS Only Catalog Number:83546-3-PBS

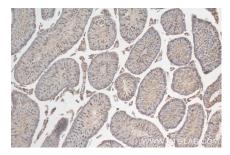


Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 83546-3-PBS BC006309 Protein A purfication GenelD (NCBI): CloneNo.: Size: 100ug , Concentration: 1000  $\mu g/ml$  by 79143 240505E8 Nanodrop: UNIPROT ID: Recommended Dilutions: Source: Q96N66 IF/ICC 1:125-1:500 Rabbit Full Name: Isotype: membrane bound O-acyltransferase domain containing 7 lgG Immunogen Catalog Number: Calculated MW: AG24466 472 aa, 53 kDa Positive Controls: **Applications Tested Applications:** IHC, IF/ICC, FC (Intra), ELISA IF/ICC : HuH-7 cells, Species Specificity: human **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. Storage Buffer: PBS Only

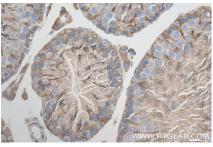
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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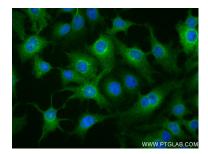
## Selected Validation Data



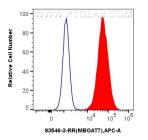
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 83546-3-RR (MBOAT7 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83546-3-PBS in a different storage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



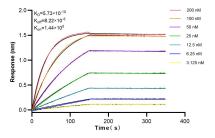
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 83546-3-RR (MBOAT7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83546-3-PBS in a different storage 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.



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 1gG(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.