

For Research Use Only

ACOX1 Recombinant antibody

Catalog Number: 83731-1-RR



Basic Information

Catalog Number: 83731-1-RR	GenBank Accession Number: BC010425	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 51	CloneNo.: 240754D3
Source: Rabbit	UNIPROT ID: Q15067	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: acyl-Coenzyme A oxidase 1, palmitoyl	
Immunogen Catalog Number: AG1405	Calculated MW: 74 kDa	
	Observed MW: 70-74 kDa, 22 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : HuH-7 cells, HepG2 cells IF/ICC : HepG2 cells,

Background Information

ACOX1 (Peroxisomal acyl-coenzyme A oxidase 1) is the first and rate-limiting enzyme in the peroxisomal fatty acid beta-oxidation pathway and catalyzes the desaturation of acyl-CoAs to 2-trans-enoyl-CoAs. It belongs to the acyl-CoA oxidase family and also named as ACOX, AOX, SCOX. It has 3 isoforms produced by alternative splicing with the molecular mass of 70-74 kDa and can be cleaved post-translationally into a 50-kDa and a 22-kDa subunit between Val468 and Ala469 (PMID: 10672038). Defects in ACOX1 are the cause of adrenoleukodystrophy pseudoneonatal (Pseudo-NALD).

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:

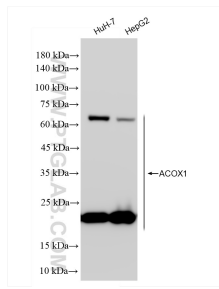
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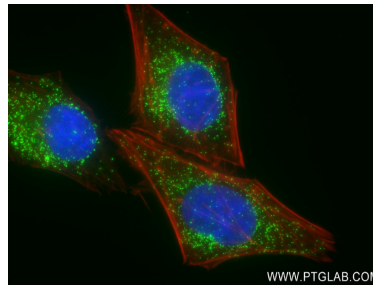
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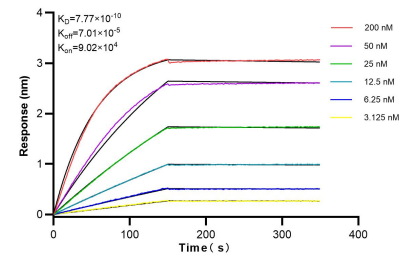
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83731-1-RR (ACOX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using AOX antibody (83731-1-RR, Clone: 240754D3) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 83731-1-RR against Human ACOX1 were performed. The affinity constant is 0.777 nM.