

For Research Use Only

ACOX1 Recombinant antibody

Catalog Number: 83731-2-RR



Basic Information

Catalog Number: 83731-2-RR	GenBank Accession Number: BC010425	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 51	CloneNo.: 240754E3
Source: Rabbit	UNIPROT ID: Q15067	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000
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, IHC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : mouse liver tissue, rat liver tissue IHC : human ovarian cancer,
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

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

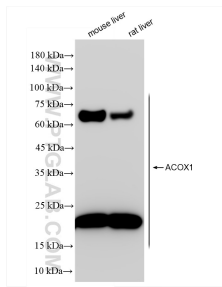
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

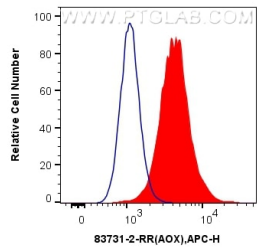
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

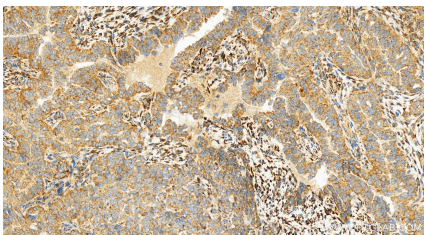
Selected Validation Data



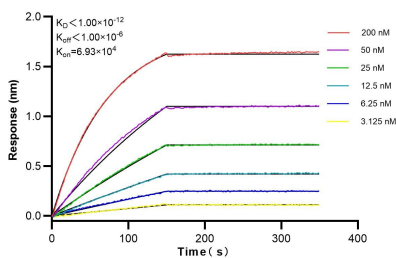
Various lysates were subjected to SDS PAGE followed by western blot with 83731-2-RR (ACOX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10⁶ A431 cells were intracellularly stained with 0.25 ug ACOX1 Recombinant antibody (83731-2-RR, Clone:240754E3) 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).



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 83731-2-RR (ACOX1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83731-2-RR against Human ACOX1 were performed. The affinity constant is below 1 pM.