## For Research Use Only

## ACOX1 Recombinant antibody, PBS Only (Detector)

Catalog Number:83731-2-PBS

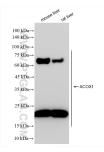


Basic Information	Catalog Number: 83731-2-PBS	GenBank Accession Number: BC010425	Purification Method: Protein A purification
	Size:	GeneID (NCBI):	CloneNo.:
	100ug , Concentration: 1 mg/ml by	51	240754E3
	Nanodrop;	UNIPROT ID:	
	Source:	Q15067	
	Rabbit	Full Name:	
	Isotype: IgG	acyl-Coenzyme A oxidase 1, palmitoyl	
	Immunogen Catalog Number: AG1405	Calculated MW: 74 kDa	
		Observed MW: 70-74 kDa, 22 kDa	
Applications	Tested Applications:		
	WB, IHC, FC (Intra), Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test		
	Species Specificity: human, mouse, rat		
Product Information	83731-2-PBS targets ACOX1 as part of a matched antibody pair.		
	MP00709-2: 83731-3-PBS capture and 83731-2-PBS detection (validated in Cytometric bead array)		
	MP00709-3: 83731-1-PBS capture and 83731-2-PBS detection (validated in Cytometric bead array, Sandwich ELISA)		
	Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.		
		s cytometry, and multiplex imaging	applications including: ELISAs, multiplex g applications.Antibody use should be
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:		
Storuge	Store at -80°C. Storage Buffer: PBS only, pH7.3		

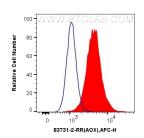
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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

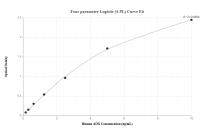
## Selected Validation Data



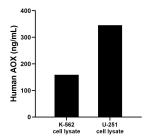
Various lysates were subjected to SDS PAGE followed by western blot with 83731-2-RR (ACOX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83731-2-PBS in a different storage buffer formulation.



1x10^6 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). This data was developed using the same antibody clone with 83731-2-PBS in a different storage buffer formulation.

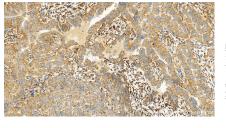


Sandwich ELISA standard curve of MP00709-3, Human AOX Recombinant Matched Antibody Pair -PBS only. 83731-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag1405. 83731-2-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL

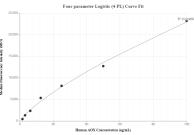


K-562 and U-251 cell lysates were measured. The human AOX concentration of detected samples was

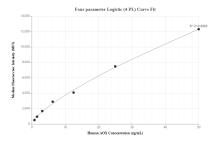
determined to be 158.79 ng/mL (based on a 2.1 mg/mL extract load) in K-562 cell lyaste and 345.46 ng/mL (based on a 1.6 mg/mL extract load) in U-251 cell lysate.



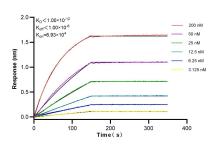
Immunohistochemical analysis of paraffinembedded human ovarian cancer slide using 83731-2-RR (ACOX1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83731-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00709-2, AOX Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83731-3-PBS. Detection antibody: 83731-2-PBS. Standard: Ag1405. Range: 1.56-100 ng/mL



Cytometric bead array standard curve of MP00709-3, AOX Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83731-1-PBS. Detection antibody: 83731-2-PBS. Standard: Ag1405. Range: 0.78-50 ng/mL



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