ACOX1 mouse mAb

Catalog No	YP-mAb-17982
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ACOX1 ACOX
Immunogen	Synthesized peptide derived from human ACOX1
Specificity	This antibody detects endogenous levels of ACOX1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Peroxisomal acyl-CoA oxidase 1;A chain;Palmitoyl-CoA oxidase;EC:1.3.3.6; AOX;ACOX 1;ACOX1;ACOX1 ACOX;Peroxisomal acyl-coenzyme A oxidase 1 (AOX) (EC 1.3.3.6) (Palmitoyl-CoA oxidase) (Straight-chain acyl-CoA oxidase) (SCOX)
Observed Band	70-74kDa, 50 kDa, 22kDa
Calculated Molecular Weight	74 kDa
Cell Pathway	Peroxisome .
Tissue Specificity	Widely expressed with highest levels of isoform 1 and isoform 2 detected in testis. Isoform 1 is expressed at higher levels than isoform 2 in liver and kidney while isoform 2 levels are higher in brain, lung, muscle, white adipose tissue and testis. Levels are almost equal in heart.
Function	Involved in the initial and rate-limiting step of peroxisomal beta-oxidation of straight-chain saturated and unsaturated very-long-chain fatty acids . Catalyzes the desaturation of fatty acyl-CoAs such as palmitoyl-CoA (hexadecanoyl-CoA) to 2-trans-enoyl-CoAs ((2E)-enoyl-CoAs) such as (2E)-hexadecenoyl-CoA, and donates electrons directly to molecular oxygen (O(2)), thereby producing hydrogen peroxide (H(2)O(2)) . ; [Isoform 1]: Shows highest activity against medium-chain fatty acyl-CoAs. Shows optimum activity with a chain length of 10

	carbons (decanoyl-CoA) in vitro. ; [Isoform 2]: Is active against a much broader range of substrates and shows activity towards long-chain fatty acyl-CoAs.
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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