



# ACOX2 Monoclonal Antibody

|                    |   |
|--------------------|---|
| Catalog No         | BYmab-05274   |
| Isotype            | IgG   |
| Reactivity         | Human;Mouse;Rat   |
| Applications       | WB  |
| Gene Name          | ACOX2   |
| Protein Name       | Peroxisomal acyl-coenzyme A oxidase 2 (EC 1.17.99.3)<br>(3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanoyl-CoA 24-hydroxylase)<br>(3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanoyl-CoA oxidase)   |
| Immunogen          | Synthesized peptide derived from human protein . at AA range: 270-350   |
| Specificity        | ACOX2 Monoclonal Antibody detects endogenous levels of protein.   |
| Formulation        | Liquid in PBS containing 50% glycerol, 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 1:500-2000   |
| Concentration      | 1 mg/ml   |
| Purity             | ≥90%  |
| Storage Stability  | -20°C/1 year  |
| Synonyms           |   |
| Observed Band      | 74kD  |
| Cell Pathway       | Peroxisome .  |
| Tissue Specificity | Present in all tissues tested: heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Most abundant in heart, liver and kidney.   |
| Function           | catalytic<br>activity:(25R)-3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestan-26-oyl-CoA + H(2)O + acceptor =<br>(24R,25R)-3-alpha,7-alpha,12-alpha,24-tetrahydroxy-5-beta-cholestan-26-oyl-CoA + reduced acceptor.,cofactor:FAD.,disease:Absent in patients suffering from Zellweger syndrome.,function:Oxidizes the CoA esters of the bile acid intermediates di- and tri-hydroxycholestanoic acids.,similarity:Belongs to the acyl-CoA oxidase family.,subunit:Heterodimer.,tissue specificity:Present in all tissues tested: heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Most abundant in heart, liver and kidney., |

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| Background                | The product of this gene belongs to the acyl-CoA oxidase family. It encodes the branched-chain acyl-CoA oxidase which is involved in the degradation of long branched fatty acids and bile acid intermediates in peroxisomes. Deficiency of this enzyme results in the accumulation of branched fatty acids and bile acid intermediates, and may lead to Zellweger syndrome, severe mental retardation, and death in children. [provided by RefSeq, Mar 2009], |
| 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.  |

## Products Images