

AOX1 Polyclonal Antibody

Catalog No: YT0243

Reactivity: Human;Rat

Applications: WB;IHC;IF;ELISA

Target: AOX1

Fields: >> Valine, leucine and isoleucine degradation;>> Tyrosine

metabolism;>>Tryptophan metabolism;>>Vitamin B6 metabolism;>>Nicotinate and nicotinamide metabolism;>>Retinol metabolism;>>Drug metabolism - cytochrome P450;>>Metabolic pathways;>>JAK-STAT signaling pathway

Gene Name: AOX1

Protein Name: Aldehyde oxidase

Q06278

O54754

Human Gene Id: 316

Human Swiss Prot

No:

Mouse Swiss Prot

No:

Rat Gene Id: 54349

Rat Swiss Prot No: Q9Z0U5

Immunogen: The antiserum was produced against synthesized peptide derived from human

AOX1. AA range:521-570

Specificity: AOX1 Polyclonal Antibody detects endogenous levels of AOX1 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 120kD

Cell Pathway: Valine; leucine and isoleucine degradation; Tyrosine metabolism; Tryptophan

metabolism; Vitamin B6 metabolism; Nicotinate and nicotinamide metabolism; Drug

metabolism;

Background: Aldehyde oxidase produces hydrogen peroxide and, under certain conditions,

can catalyze the formation of superoxide. Aldehyde oxidase is a candidate gene

for amyotrophic lateral sclerosis. [provided by RefSeq, Jul 2008],

Function: catalytic activity: An aldehyde + H(2)O + O(2) = a carboxylic acid +

H(2)O(2).,caution:Was originally (PubMed:8248161) thought to be a xanthine

dehydrogenase.,cofactor:Binds 2 2Fe-2S

clusters.,cofactor:FAD.,cofactor:Molybdopterin.,similarity:Belongs to the xanthine

dehydrogenase family., similarity: Contains 1 2Fe-2S ferredoxin-type

domain., similarity: Contains 1 FAD-binding PCMH-type

domain., subunit: Homodimer., tissue specificity: Abundant in liver, lower levels in

lung, skeletal muscle, pancreas. Undetected in heart, brain and kidney.,

Subcellular Location:

Cytoplasm.

Expression: Abundant in liver, expressed in adipose tissue and at lower levels in lung,

skeletal muscle, pancreas. In contrast to mice, no significant gender difference in

AOX1 expression level (at protein level).

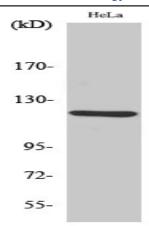
Sort: 2081

No4:

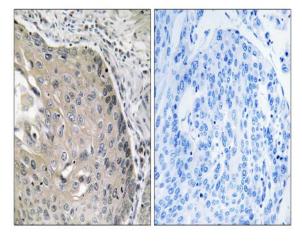
Host: Rabbit

Modifications: Unmodified

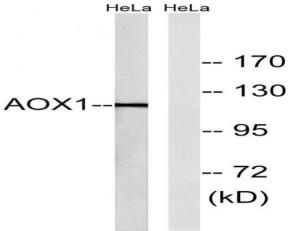
Products Images



Western Blot analysis of various cells using AOX1 Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using AOX1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using AOX1 Antibody. The lane on the right is blocked with the synthesized peptide.