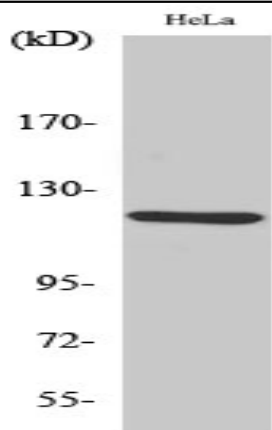


AOX1 Polyclonal Antibody

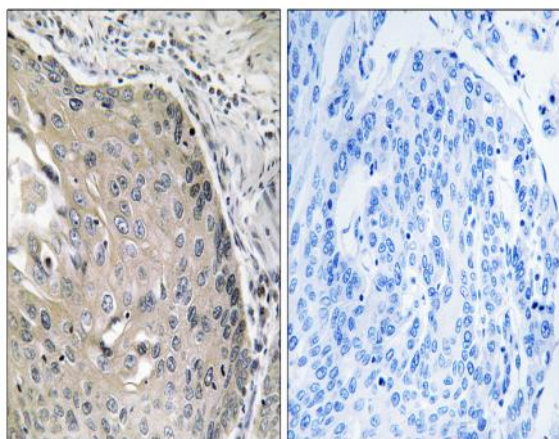
Catalog No :	YT0243
Reactivity :	Human;Rat
Applications :	WB;IHC;IF;ELISA
Target :	AOX1
Fields :	>>Valine, leucine and isoleucine degradation;>>Tyrosine metabolism;>>Tryptophan metabolism;>>Vitamin B6 metabolism;>>Nicotinate and nicotinamide metabolism;>>Retinol metabolism;>>Drug metabolism - cytochrome P450;>>Metabolic pathways;>>JAK-STAT signaling pathway
Gene Name :	AOX1
Protein Name :	Aldehyde oxidase
Human Gene Id :	316
Human Swiss Prot No :	Q06278
Mouse Swiss Prot No :	O54754
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

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).

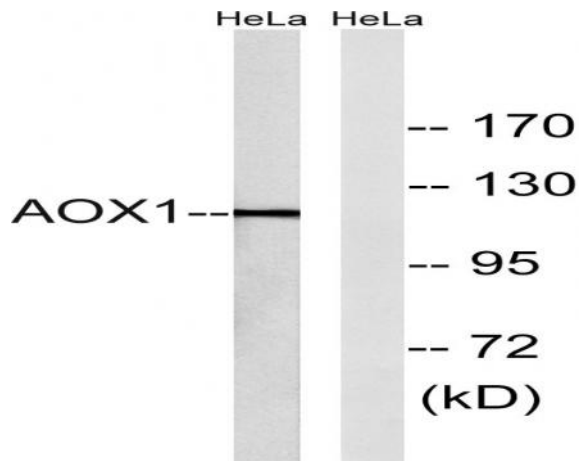
Products Images



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.