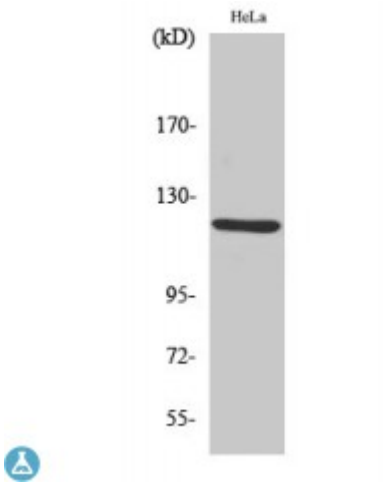
Anti-AOX1 antibody



Description	Rabbit polyclonal to AOX1.

Model	STJ91608
Host	Rabbit
Reactivity	Human, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human AOX1
Immunogen Region	490-570 aa, Internal
Gene ID	316
Gene Symbol	AOX1
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000
Specificity	AOX1 Polyclonal Antibody detects endogenous levels of AOX1 protein.
Tissue Specificity	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).
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Aldehyde oxidase Aldehyde oxidase 1 Azaheterocycle hydroxylase
Molecular Weight	120 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:553OMIM:602841
Alternative Names	Aldehyde oxidase Aldehyde oxidase 1 Azaheterocycle hydroxylase
Function	Oxidase with broad substrate specificity, oxidizing aromatic azaheterocycles, such as N1-methylnicotinamide and N-methylphthalazinium, as well as aldehydes, such as benzaldehyde, retinal, pyridoxal, and vanillin. Plays a key role in the metabolism of xenobiotics and drugs containing aromatic azaheterocyclic substituents. Participates in the bioactivation of prodrugs such as famciclovir, catalyzing the oxidation step from 6-deoxypenciclovir to penciclovir, which is a potent antiviral agent. Is probably involved in the regulation of reactive oxygen species homeostasis. May be a prominent source of superoxide generation via the one-electron reduction of molecular oxygen. Also may catalyze nitric oxide (NO) production via the reduction of nitrite to NO with NADH or aldehyde as electron donor. May play a role in adipogenesis.
Cellular Localization	Cytoplasm