

Anti-AOX1/Aldehyde Oxidase Antibody

Catalog Number: A02144

About AOX1

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.

Wright R.M., Proc. Natl. Acad. Sci. U.S.A. 90:10690-10694(1993).

Wright R.M., Redox Rep. 3:135-144(1997).

Hillier L.W., Nature 434:724-731(2005).

Overview

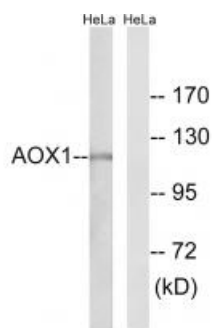
Product Name	Anti-AOX1/Aldehyde Oxidase Antibody
Reactive Species	Human
Description	Boster Bio Anti-AOX1/Aldehyde Oxidase Antibody (Catalog # A02144). Tested in WB, IHC applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q06278

Technical Details

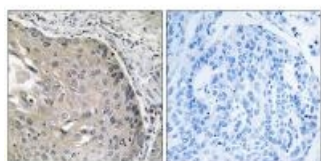
Immunogen	Synthesized peptide derived from internal of human AOX1.
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Isotype	IgG
Form	Liquid

Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blotting: 1:500~1:3000</p> <p>Immunohistochemistry: 1:50~1:100</p>

Anti-AOX1/Aldehyde Oxidase Antibody (A02144) Images



Western blot analysis of extracts from HeLa cells, using AOX1 antibody A02144.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using AOX1 antibody A02144.

2 Publications Citing This Product

1. PubMed ID: 10.1016/j.intimp.2020.106618, Aldehyde oxidase 1 promoted the occurrence and development of colorectal cancer by up-regulation of expression of CD133
2. PubMed ID: 32470878, Zhang W,Chai W,Zhu Z,Li X.Aldehyde oxidase 1 promoted the occurrence and development of colorectal cancer by up-regulation of expression of CD133. Int Immunopharmacol.2020 Aug;85:106618.doi:10.1016/j.intimp.2020.106618.Epub 2020 May 26.PMID:32470878.

Visit bosterbio.com/anti-aox1-antibody-a02144-boster.html to see all 2 publications.

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