

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

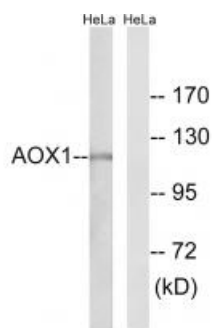
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|----------------------|--|
| Product Name | Anti-AOX1/Aldehyde Oxidase Antibody |
| Reactive Species | Human |
| Description | Boster Bio Anti-AOX1/Aldehyde Oxidase Antibody (Catalog # A02144). Tested in WB, IHC applications. This antibody reacts 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

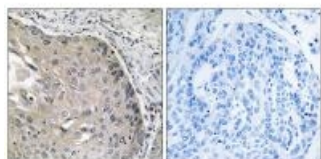
| | |
|----------------------------|--|
| Immunogen | Synthesized peptide derived from internal of human AOX1. |
| Predicted Reactive Species | Boar, Bovine, Canine, Golden Hamster |
| Isotype | IgG |
| Form | Liquid |

| | |
|---------------------|---|
| 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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