

ADH7 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2555a

Specification

ADH7 Antibody (internal region) - Product Information

Application	E
Primary Accession	P40394
Other Accession	NP_000664.2 , 131
Predicted	Human, Mouse
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	41481

ADH7 Antibody (internal region) - Additional Information

Gene ID 131

Other Names

Alcohol dehydrogenase class 4 mu/sigma chain, 1.1.1.1, Alcohol dehydrogenase class IV mu/sigma chain, Gastric alcohol dehydrogenase, Retinol dehydrogenase, ADH7

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ADH7 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

ADH7 Antibody (internal region) - Protein Information

Name ADH7 ([HGNC:256](#))

Function

Catalyzes the NAD-dependent oxidation of all-trans-retinol, alcohol, and omega-hydroxy fatty acids and their derivatives (PubMed: [15369820](http://www.uniprot.org/citations/15369820), PubMed: [16787387](http://www.uniprot.org/citations/16787387), PubMed: [9600267](http://www.uniprot.org/citations/9600267)). Oxidizes preferentially all trans-retinol, all-trans-4-hydroxyretinol, 9-cis-retinol, 2-hexenol, and long chain omega-hydroxy fatty acids such as juniperic acid (PubMed: [15369820](http://www.uniprot.org/citations/15369820))

target="_blank">15369820, PubMed:16787387, PubMed:9600267). In vitro can also catalyze the NADH-dependent reduction of all-trans- retinal and aldehydes and their derivatives (PubMed:15369820, PubMed:16787387, PubMed:9600267). Reduces preferentially all trans- retinal, all-trans-4-oxoretinal and hexanal (PubMed:15369820, PubMed:16787387). Catalyzes in the oxidative direction with higher efficiency (PubMed:15369820, PubMed:16787387). Therefore may participate in retinoid metabolism, fatty acid omega-oxidation, and elimination of cytotoxic aldehydes produced by lipid peroxidation (PubMed:15369820, PubMed:16787387, PubMed:9600267).

Cellular Location

Cytoplasm.

Tissue Location

Preferentially expressed in stomach.

ADH7 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ADH7 Antibody (internal region) - Images

ADH7 Antibody (internal region) - References

Genomic structure and expression of the ADH7 gene encoding human class IV alcohol dehydrogenase, the form most efficient for retinol metabolism in vitro. Zgombic-Knight M, Foglio MH, Duester G. J Biol Chem. 1995 Mar 3;270(9):4305-11. PMID: 7876191