

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

**Specification**

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**ADH7 Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">P40394</a>
Other Accession	<a href="#">NP_000664.2</a> , <a href="#">131</a>
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</a>, PubMed:<a href="http://www.uniprot.org/citations/16787387" target="\_blank">16787387</a>, PubMed:<a href="http://www.uniprot.org/citations/9600267" target="\_blank">9600267</a>). In vitro can also catalyze the NADH-dependent reduction of all-trans- retinal and aldehydes and their derivatives (PubMed:<a href="http://www.uniprot.org/citations/15369820" target="\_blank">15369820</a>, PubMed:<a href="http://www.uniprot.org/citations/16787387" target="\_blank">16787387</a>, PubMed:<a href="http://www.uniprot.org/citations/9600267" target="\_blank">9600267</a>). Reduces preferentially all trans- retinal, all-trans-4-oxoretinal and hexanal (PubMed:<a href="http://www.uniprot.org/citations/15369820" target="\_blank">15369820</a>, PubMed:<a href="http://www.uniprot.org/citations/16787387" target="\_blank">16787387</a>). Catalyzes in the oxidative direction with higher efficiency (PubMed:<a href="http://www.uniprot.org/citations/15369820" target="\_blank">15369820</a>, PubMed:<a href="http://www.uniprot.org/citations/16787387" target="\_blank">16787387</a>). Therefore may participate in retinoid metabolism, fatty acid omega-oxidation, and elimination of cytotoxic aldehydes produced by lipid peroxidation (PubMed:<a href="http://www.uniprot.org/citations/15369820" target="\_blank">15369820</a>, PubMed:<a href="http://www.uniprot.org/citations/16787387" target="\_blank">16787387</a>, PubMed:<a href="http://www.uniprot.org/citations/9600267" target="\_blank">9600267</a>).

#### **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