

# ADH7 Polyclonal Antibody

Catalog # AP68317

## Product Information

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Application	WB
Primary Accession	<a href="#">P40394</a>
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41481

## Additional Information

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Gene ID	131
Other Names	ADH7; Alcohol dehydrogenase class 4 mu/sigma chain; Alcohol dehydrogenase class IV mu/sigma chain; Gastric alcohol dehydrogenase; Retinol dehydrogenase
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	ADH7 ( <a href="#">HGNC:256</a> )
Function	Catalyzes the NAD-dependent oxidation of all-trans-retinol, alcohol, and omega-hydroxy fatty acids and their derivatives (PubMed: <a href="#">15369820</a> , PubMed: <a href="#">16787387</a> , PubMed: <a href="#">9600267</a> ). 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: <a href="#">15369820</a> , PubMed: <a href="#">16787387</a> , PubMed: <a href="#">9600267</a> ). In vitro can also catalyze the NADH-dependent reduction of all-trans- retinal and aldehydes and their derivatives (PubMed: <a href="#">15369820</a> , PubMed: <a href="#">16787387</a> , PubMed: <a href="#">9600267</a> ). Reduces preferentially all trans- retinal, all-trans-4-oxoretinal and hexanal (PubMed: <a href="#">15369820</a> , PubMed: <a href="#">16787387</a> ). Catalyzes in the oxidative direction with higher efficiency (PubMed: <a href="#">15369820</a> , PubMed: <a href="#">16787387</a> ). Therefore may participate in retinoid metabolism, fatty acid omega-oxidation, and elimination of cytotoxic aldehydes produced by lipid peroxidation (PubMed: <a href="#">15369820</a> , PubMed: <a href="#">16787387</a> , PubMed: <a href="#">9600267</a> ).
Cellular Location	Cytoplasm.

**Tissue Location**

Preferentially expressed in stomach.

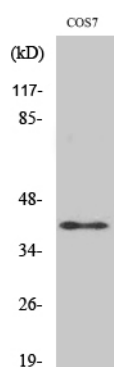
**Background**

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Could function in retinol oxidation for the synthesis of retinoic acid, a hormone important for cellular differentiation. Medium-chain (octanol) and aromatic (m-nitrobenzaldehyde) compounds are the best substrates. Ethanol is not a good substrate but at the high ethanol concentrations reached in the digestive tract, it plays a role in the ethanol oxidation and contributes to the first pass ethanol metabolism.

**Images**

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Western Blot analysis of various cells using ADH7 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.