



ADH7 Polyclonal Antibody

Catalog No	BYab-02484
Isotype	IgG
Reactivity	Human;Monkey
Applications	WB;ELISA
Gene Name	ADH7
Protein Name	Alcohol dehydrogenase class 4 mu/sigma chain
Immunogen	The antiserum was produced against synthesized peptide derived from human ADH7. AA range:211-260
Specificity	ADH7 Polyclonal Antibody detects endogenous levels of ADH7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ADH7; Alcohol dehydrogenase class 4 mu/sigma chain; Alcohol dehydrogenase class IV mu/sigma chain; Gastric alcohol dehydrogenase; Retinol dehydrogenase
Observed Band	40kD
Cell Pathway	Cytoplasm.
Tissue Specificity	Preferentially expressed in stomach.
Function	catalytic activity:An alcohol + NAD(+) = an aldehyde or ketone + NADH.,cofactor:Binds 2 zinc ions per subunit.,cofactor:Zinc.,function: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.,miscellaneous:There are 7 different ADH's isozymes in human: three belongs to class-I: alpha, beta, and gamma, one to class-II: pi, one to class-III: chi, one to class-IV: ADH7 and one to class-V: ADH6.,similarity:Belongs to the

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zinc-containing alcohol dehydrogenase family. Class-IV
subfamily.,subunit:Homodimer.,tissue specificity:Preferentially expr

Background

This gene encodes class IV alcohol dehydrogenase 7 mu or sigma subunit, which is a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. The enzyme encoded by this gene is inefficient in ethanol oxidation, but is the most active as a retinol dehydrogenase; thus it may participate in the synthesis of retinoic acid, a hormone important for cellular differentiation. The expression of this gene is much more abundant in stomach than liver, thus differing from the other known gene family members. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009],

matters needing attention

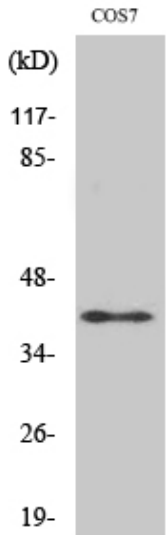
Avoid repeated freezing and thawing!

Usage suggestions

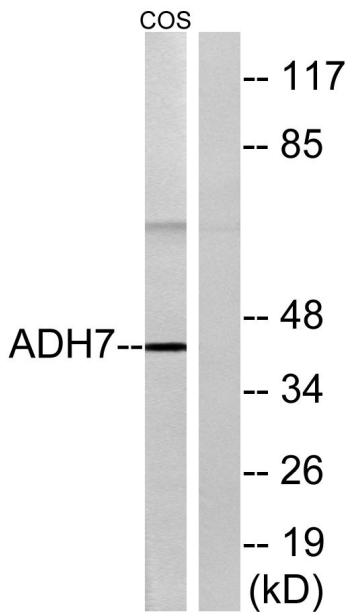
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western Blot analysis of various cells using ADH7 Polyclonal Antibody



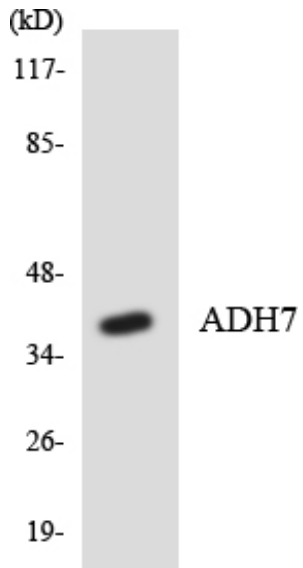
Western blot analysis of lysates from COS7 cells, using ADH7 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from HeLa cells using ADH7 antibody.