ADH4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ADH4, Polyclonal Antibody
Full Product Name	ADH4 Conjugated Antibody
Product Gene Name	anti-ADH4 antibody
Product Synonym Names	ADH-2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total ADH4 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	42,607 Da
OMIM	M15943 mRNA
3D Structure	ModBase 3D Structure for P08319
Immunogen	Fusion protein corresponding to residues near the C terminal of human alcohol dehydrogenase 4 (class II), pi polypeptide
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-ADH4 antibody	Most Applications
Application Notes for anti-ADH4 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-ADH4 antibody	This gene encodes class II alcohol dehydrogenase 4 pi subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class II alcohol dehydrogenase is a homodimer composed of 2 pi subunits. It exhibits a high activity for oxidation of long-chain aliphatic alcohols and aromatic alcohols and is less sensitive to pyrazole. This gene is localized to chromosome 4 in the cluster of alcohol dehydrogenase genes.
Other Notes	Small volumes of anti-ADH4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ADH4 purchase	MBS9446515 is an antibody targeting ADH4. Also known as ADH4 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADH4. It may not necessarily be applicable to this product.

NCBI GI #	18490172
NCBI GeneID	127
NCBI Accession #	BC022319
UniProt Primary Accession #	P08319
UniProt Secondary Accession #	Q8TCD7; A8K470; B4DIE7; C9J4A9
UniProt Related Accession #	P08319
NCBI Official Full Name	Homo sapiens alcohol dehydrogenase 4 (class II), pi polypeptide, mRNA
NCBI Official Synonym Full Names	alcohol dehydrogenase 4 (class II), pi polypeptide
NCBI Official Symbol	ADH4
NCBI Official Synonym Symbols	ADH-2; HEL-S-4
UniProt Protein Name	Alcohol dehydrogenase 4
UniProt Synonym Protein Names	Alcohol dehydrogenase class II pi chain
Protein Family	Alcohol dehydrogenase
UniProt Gene Name	ADH4
NCBI Protein Information	alcohol dehydrogenase 4
UniProt Comments for ADH4	ADH4: class II alcohol dehydrogenase 4 pi subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class II alcohol dehydrogenase is a homodimer composed of 2 pi subunits. It exhibits a high activity for oxidation of long-chain aliphatic alcohols and aromatic alcohols and is less sensitive to pyrazole. This gene is localized to chromosome 4 in the cluster of alcohol dehydrogenase genes. [provided by RefSeq, Jul 2008] Protein type: Amino Acid Metabolism - tyrosine; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Cofactor and Vitamin Metabolism - retinol; EC 1.1.1.1; Lipid Metabolism - fatty acid; Oxidoreductase; Xenobiotic Metabolism - drug metabolism - cytochrome P450; Xenobiotic Metabolism - metabolism by cytochrome P450 Chromosomal Location of Human Ortholog: 4q23 Cellular Component: cytosol Molecular Function: alcohol dehydrogenase activity; alcohol dehydrogenase activity, zinc-dependent; all-trans retinal binding; benzaldehyde dehydrogenase activity; NAD binding; NADPH:quinone reductase activity; oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor; retinol binding; retinol dehydrogenase activity; zinc ion binding Biological Process: alcohol catabolic process; alcohol metabolic process; aldehyde metabolic process; ethanol oxidation; retinoid metabolic process; retinol metabolic process
Research Articles on ADH4	**1.** this current study provides substantial evidence that genetic polymorphisms of rs3805322 in the ADH4 gene may be associated with an increased risk of developing ESCC in two Chinese Han populations.

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