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ADH4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ADH4.
Catalog # AT1054a

Product Information

Application	WB, E
Primary Accession	P08319
Other Accession	NM_000670
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3C5
Calculated MW	40222

Additional Information

Gene ID	127
Other Names	Alcohol dehydrogenase 4, Alcohol dehydrogenase class II pi chain, ADH4
Target/Specificity	ADH4 (NP_000661, 52 a.a. ~ 150 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ADH4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

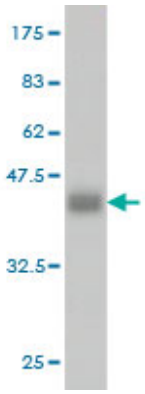
This gene encodes class II alcohol dehydrogenase 4 pi subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class II 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.

References

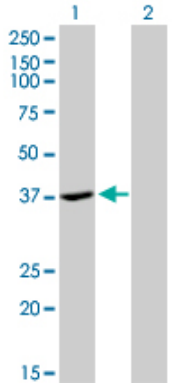
Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two

population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.Association of ADH4 genetic variants with alcohol dependence risk and related phenotypes: results from a larger multicenter association study. Preuss UW, et al. Addict Biol, 2010 Jul 9. PMID 20626721.A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000.Identification of a FOXA-dependent enhancer of human alcohol dehydrogenase 4 (ADH4). Pochareddy S, et al. Gene, 2010 Jul 15. PMID 20363298.Cluster headache is associated with the alcohol dehydrogenase 4 (ADH4) gene. Rainero I, et al. Headache, 2010 Jan. PMID 19925625.

Images

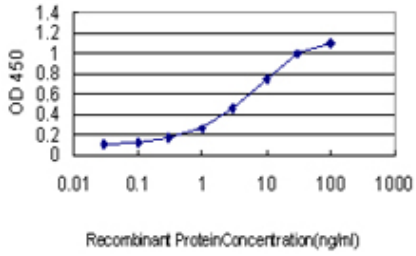


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

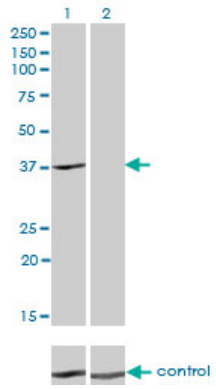


Western Blot analysis of ADH4 expression in transfected 293T cell line by ADH4 monoclonal antibody (M01), clone 3C5.

Lane 1: ADH4 transfected lysate(40.2 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ADH4 is approximately 0.3ng/ml as a capture antibody.



Western blot analysis of ADH4 over-expressed 293 cell line, cotransfected with ADH4 Validated Chimera RNAi ((Cat # AT1054a)

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