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ADH4 Antibody (monoclonal) (M01)

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

Specification

ADH4 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	P08319
Other Accession	NM_000670
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**40222**

ADH4 Antibody (monoclonal) (M01) - 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.

ADH4 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

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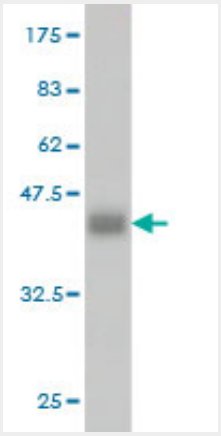
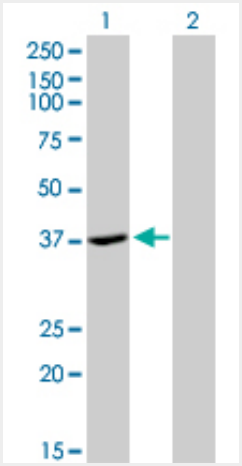
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ADH4 Antibody (monoclonal) (M01) - 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.

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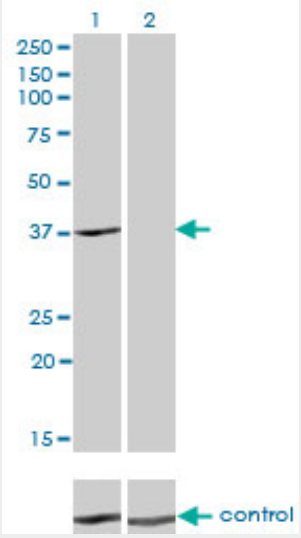
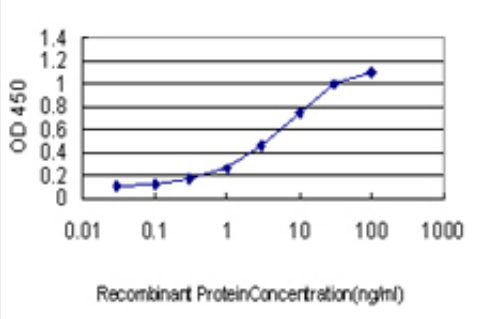


Western blot analysis of ADH4 over-expressed 293 cell line, cotransfected with ADH4 Validated Chimera RNAi ((Cat # AT1054a)



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

ADH4 Antibody (monoclonal) (M01) - 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.

ADH4 Antibody (monoclonal) (M01) - 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.