

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.

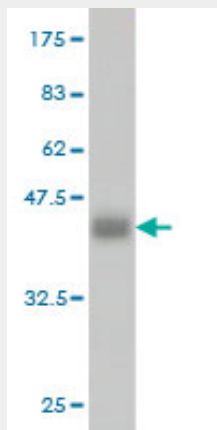
ADH4 Antibody (monoclonal) (M01) - Protocols

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

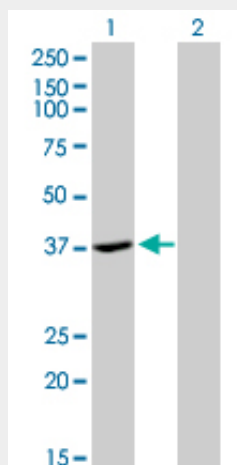
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ADH4 Antibody (monoclonal) (M01) - Images



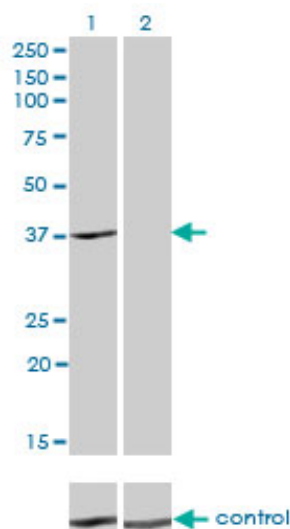
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 kDa) .



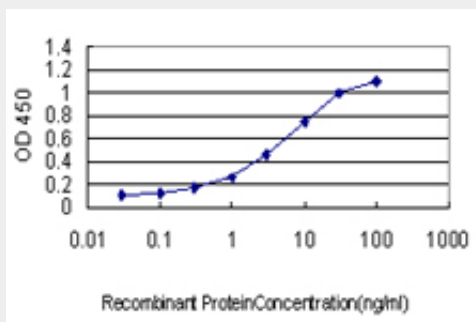
Western Blot analysis of ADH4 expression in transfected 293T cell line by ADH4 monoclonal antibody (M01), clone 3C5.

Lane 1: ADH4 transfected lysate (40.2 kDa).

Lane 2: Non-transfected lysate.



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.