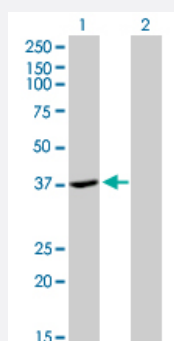


ADH4 monoclonal antibody (M01), clone 3C5

Catalog # H00000127-M01

Size 100 ug

Applications

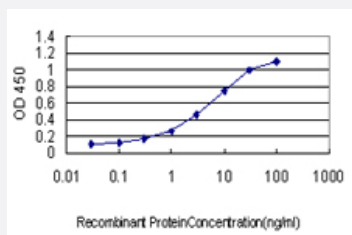


Western Blot (Transfected lysate)

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

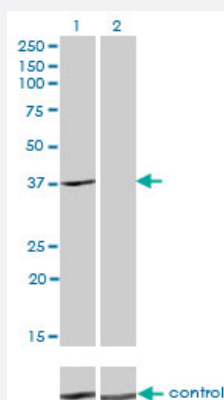
Lane 1: ADH4 transfected lysate (40.2 kDa).

Lane 2: Non-transfected lysate.



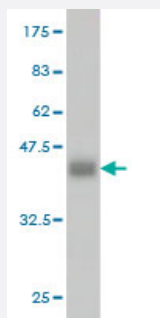
Sandwich ELISA (Recombinant protein)

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



RNAi Knockdown (Antibody validated)

Western blot analysis of ADH4 over-expressed 293 cell line, cotransfected with ADH4 Validated Chimera RNAi (Cat # H00000127-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with ADH4 monoclonal antibody (M01), clone 3C5 (Cat # H00000127-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ADH4.
Immunogen	ADH4 (NP_000661, 52 a.a. ~ 150 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	SVIDSKFEGLAFPVINGHEAAGVESIGPGVTNVKPGDKVIPLYAPLCRKCKFCLSPLTNLCKGKISNLKSPASDQQLMEDKTSRFTCKGKPVYHFFGTS
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (73); Rat (74)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

● Western Blot (Transfected lysate)

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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of ADH4 over-expressed 293 cell line, cotransfected with ADH4 Validated Chimera RNAi (Cat # H00000127-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with ADH4 monoclonal antibody (M01), clone 3C5 (Cat # H00000127-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — ADH4

Entrez GeneID [127](#)

GeneBank Accession# [NM_000670](#)

Protein Accession# [NP_000661](#)

Gene Name ADH4

Gene Alias ADH-2

Gene Description alcohol dehydrogenase 4 (class II), pi polypeptide

Omim ID [103740](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations aldehyde reductase|class II alcohol dehydrogenase 4, pi subunit

Pathway

- [1- and 2-Methylnaphthalene degradation](#)
- [3-Chloroacrylic acid degradation](#)
- [Drug metabolism - cytochrome P450](#)
- [Fatty acid metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Retinol metabolism](#)
- [Tyrosine metabolism](#)

Disease

- [Adenocarcinoma](#)
- [Alcohol-Induced Disorders](#)
- [Alcoholism](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cluster Headache](#)
- [Disease Models](#)
- [Diseases in Twins](#)
- [Esophageal Neoplasms](#)
- [Extraversion \(Psychology\)](#)
- [Flushing](#)
- [Genetic Predisposition to Disease](#)

- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [Kidney Failure](#)
- [Parkinson disease](#)
- [Personality Inventory](#)
- [Substance-Related Disorders](#)