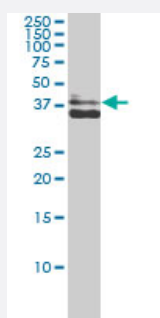


AKR1C4 monoclonal antibody (M01), clone 2C11

Catalog # H00001109-M01

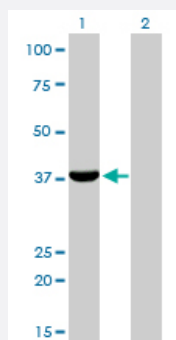
Size 100 ug

Applications



Western Blot (Cell lysate)

AKR1C4 monoclonal antibody (M01), clone 2C11 Western Blot analysis of AKR1C4 expression in MCF-7 (Cat # L046V1).

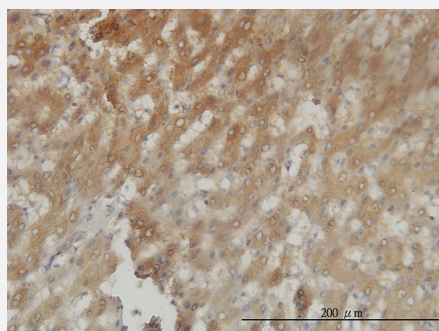


Western Blot (Transfected lysate)

Western Blot analysis of AKR1C4 expression in transfected 293T cell line by AKR1C4 monoclonal antibody (M01), clone 2C11.

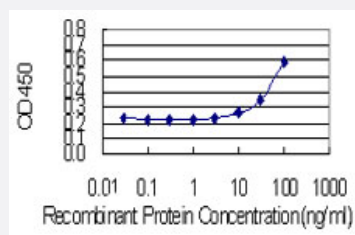
Lane 1: AKR1C4 transfected lysate(37.2 KDa).

Lane 2: Non-transfected lysate.



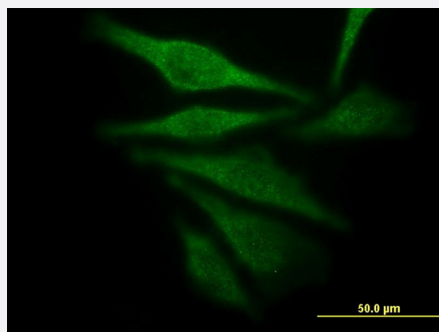
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to AKR1C4 on formalin-fixed paraffin-embedded human liver tissue. [antibody concentration 3 ug/ml]



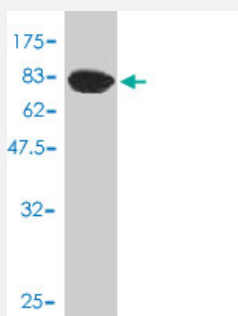
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AKR1C4 is 3 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to AKR1C4 on HepG2 cell.
[antibody concentration 15 ug/ml]



Western Blot detection against Immunogen (61.27 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant AKR1C4.
Immunogen	AKR1C4 (AAH20744, 1 a.a. ~ 323 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTKLAIEAGFRHIDSAYLYNNEEQVGLAIR SKIADGSVKREDIFYTSKLWCTFFQPQMVPAPALESSLKKLQLDYVDLYLLHFPMALKPGETPLPK DENGKIVFDTVDSLATWEVMEKCKDAGLAKSIGVSNFNRYRQLEMILNKPGLKYKPCNQVECHPY LNQSKLLDFCKSKDMLVAHSALGTQRHKLWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQ RGVVVLAKSYNEQRIRENIQVFEFQLTSEDMKVLGDGLNRNYRYVVMDFLMDHPDYPFSDEY
Host	Mouse
Reactivity	Human
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (61.27 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 (Cell lysate)

AKR1C4 monoclonal antibody (M01), clone 2C11 Western Blot analysis of AKR1C4 expression in MCF-7 (Cat # L046V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of AKR1C4 expression in transfected 293T cell line by AKR1C4 monoclonal antibody (M01), clone 2C11.

Lane 1: AKR1C4 transfected lysate(37.2 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to AKR1C4 on formalin-fixed paraffin-embedded human liver tissue. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AKR1C4 is 3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to AKR1C4 on HepG2 cell. [antibody concentration 15 ug/ml]

Gene Info — AKR1C4

Entrez GeneID [1109](#)

GeneBank Accession# [BC020744](#)

Protein Accession# [AAH20744](#)

Gene Name	AKR1C4
Gene Alias	3-alpha-HSD, C11, CDR, CHDR, DD4, HAKRA, MGC22581
Gene Description	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)
Omim ID	600451
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the bioreduction of chlordecone, a toxic organochlorine pesticide, to chlordecone alcohol in liver. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. [provided by RefSeq]
Other Designations	3 alpha-hydroxysteroid dehydrogenase/dihydrodiol dehydrogenase 4[OTTHUMP00000018997]aldo-keto reductase family 1, member C4[chlordecone reductase]dihydrodiol dehydrogenase 4[dihydrodiol dehydrogenase isozyme DD4]type I 3-alpha-hydroxysteroid dehydrogenase

Publication Reference

- [Regulation of Human 3{alpha}-Hydroxysteroid Dehydrogenase \(AKR1C4\) Expression by the Liver X Receptor {alpha}.](#)

Stayrook KR, Rogers PM, Savkur RS, Wang Y, Su C, Varga G, Bu X, Wei T, Nagpal S, Liu XS, Burris TP.

Molecular Pharmacology 2007 Nov; 73(2):607.

Application: WB, Human, HepG2 cells

Pathway

- [Androgen and estrogen metabolism](#)
- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Primary bile acid biosynthesis](#)

Disease

- [Alzheimer Disease](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Obesity](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)