10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AKR1C4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant AKR1C4.
Catalog # AT1094a

Specification

AKR1C4 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, IHC, E**
Primary Accession	P17516
Other Accession	BC020744
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 kappa**
Calculated MW	**37067**

AKR1C4 Antibody (monoclonal) (M01) - Additional Information

Gene ID 1109

Other Names
Aldo-keto reductase family 1 member C4, 111-, 3-alpha-HSD1, 3-alpha-hydroxysteroid dehydrogenase type I, Chlordecone reductase, CDR, Dihydrodiol dehydrogenase 4, DD-4, DD4, HAKRA, AKR1C4, CHDR

Target/Specificity
AKR1C4 (AAH20744, 1 a.a. ~ 323 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

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
AKR1C4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

AKR1C4 Antibody (monoclonal) (M01) - Protocols

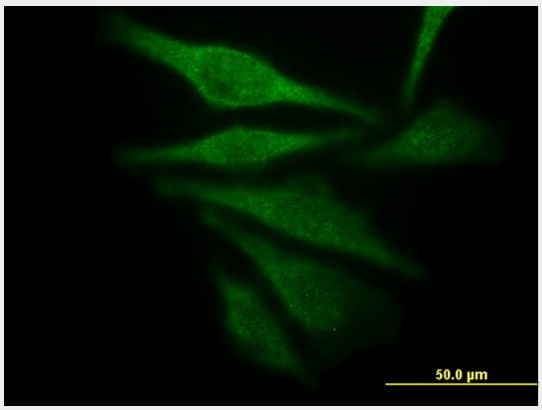
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

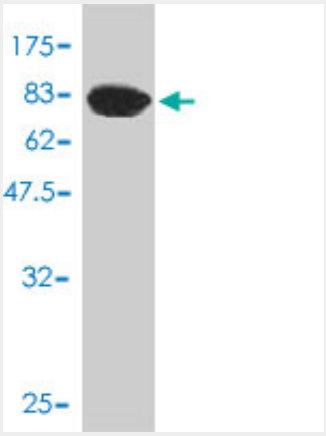
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

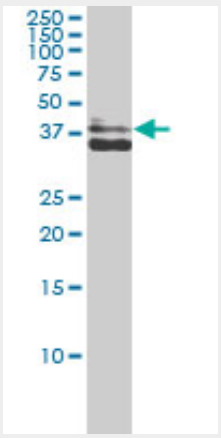
AKR1C4 Antibody (monoclonal) (M01) - Images



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

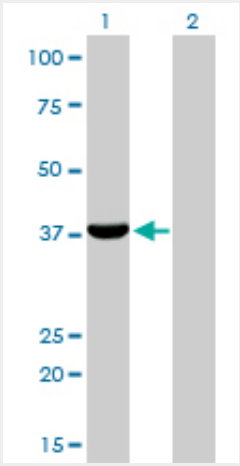


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (61.27 KDa) .



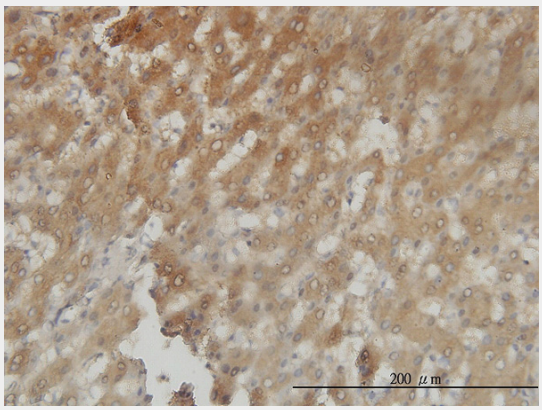
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AKR1C4 monoclonal antibody (M01), clone 2C11 Western Blot analysis of AKR1C4 expression in MCF-7 ((Cat # AT1094a)

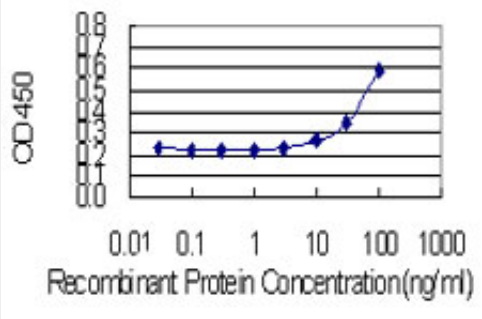


Western Blot analysis of AKR1C4 expression in transfected 293T cell line by AKR1C4 monoclonal antibody (M01), clone 2C11.

Lane 1: AKR1C4 transfected lysate(37.2 KDa).
Lane 2: Non-transfected lysate.



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



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

AKR1C4 Antibody (monoclonal) (M01) - Background

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.

AKR1C4 Antibody (monoclonal) (M01) - References

1.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.Mol Pharmacol. 2008 Feb;73(2):607-12. Epub 2007 Nov 16.