

**AKR1C4 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a full length recombinant AKR1C4.****Catalog # AT1094a****Specification**

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**AKR1C4 Antibody (monoclonal) (M01) - Product Information**

Application	IF, WB, IHC, E
Primary Accession	<a href="#">P17516</a>
Other Accession	<a href="#">BC020744</a>
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.

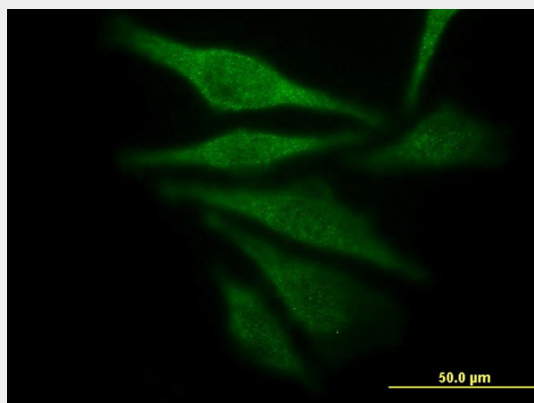
**AKR1C4 Antibody (monoclonal) (M01) - Protocols**

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

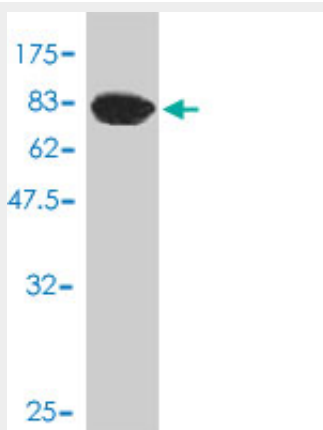
- [Western Blot](#)
- [Blocking Peptides](#)

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

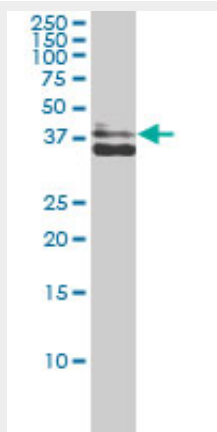
#### AKR1C4 Antibody (monoclonal) (M01) - Images



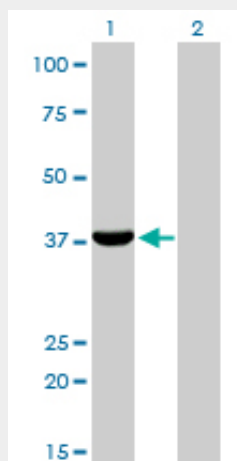
Immunofluorescence of monoclonal antibody to AKR1C4 on HepG2 cell. [antibody concentration 15 ug/ml]



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



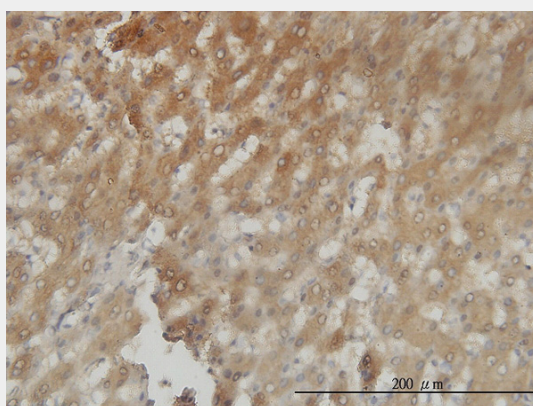
AKR1C4 monoclonal antibody (M01), clone 2C11 Western Blot analysis of AKR1C4 expression in MCF-7 ( (Cat # AT1094a )



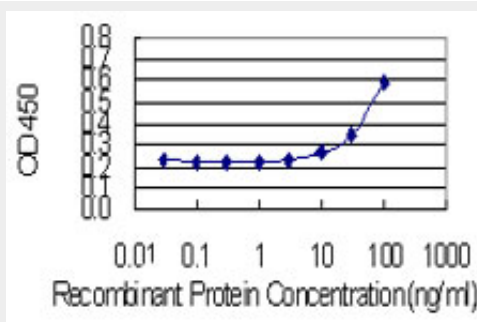
Western Blot analysis of AKR1C4 expression in transfected 293T cell line by AKR1C4 monoclonal antibody (M01), clone 2C11.

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 chlordane, a toxic organochlorine pesticide, to chlordane 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.