

**AKR1C2 Antibody (monoclonal) (M03)****Mouse monoclonal antibody raised against a partial recombinant AKR1C2.****Catalog # AT1093a****Specification**

---

**AKR1C2 Antibody (monoclonal) (M03) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P52895</a>
Other Accession	<a href="#">BC063574</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	36735

**AKR1C2 Antibody (monoclonal) (M03) - Additional Information****Gene ID** 1646**Other Names**

Aldo-keto reductase family 1 member C2, 1---, 3-alpha-HSD3, Chlordecone reductase homolog  
HAKRD, Dihydrodiol dehydrogenase 2, DD-2, DD2, Dihydrodiol dehydrogenase/bile acid-binding  
protein, DD/BABP, Trans-1, 2-dihydrobenzene-1, 2-diol dehydrogenase, Type III  
3-alpha-hydroxysteroid dehydrogenase, AKR1C2, DDH2

**Target/Specificity**

AKR1C2 (AAH63574, 224 a.a. ~ 323 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**

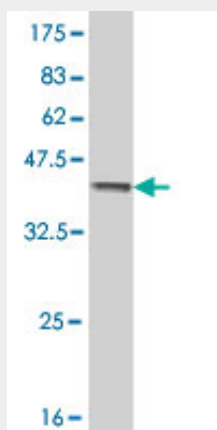
AKR1C2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or  
therapeutic procedures.

**AKR1C2 Antibody (monoclonal) (M03) - Protocols**

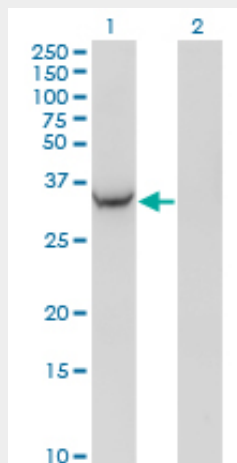
Provided below are standard protocols that you may find useful for product applications.

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

#### AKR1C2 Antibody (monoclonal) (M03) - Images



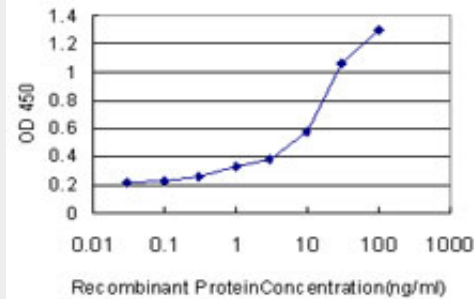
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of AKR1C2 expression in transfected 293T cell line by AKR1C2 monoclonal antibody (M03), clone 3C11.

Lane 1: AKR1C2 transfected lysate (36.7 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged AKR1C2 is approximately 0.3ng/ml as a capture antibody.

### **AKR1C2 Antibody (monoclonal) (M03) - 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 using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3- $\alpha$ -hydroxysteroid dehydrogenase activity. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14.

### **AKR1C2 Antibody (monoclonal) (M03) - References**

1. Aldo-keto reductases AKR1C1, AKR1C2 and AKR1C3 may enhance progesterone metabolism in ovarian endometriosis. Hevir N, Vouk K, Sinkovec J, Ribic-Pucelj M, Lanisnik Rizner T. *Chem Biol Interact.* 2011 Jan 11. [Epub ahead of print]
2. Aldo-keto reductase 1C2 fails to metabolize doxorubicin and daunorubicin in vitro. Takahashi RH, Bains OS, Pfeifer TA, Grigliatti TA, Reid RE, Riggs KW. *Drug Metab Dispos.* 2008 Jun;36(6):991-4. Epub 2008 Mar 5.