



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## AKR1D1 monoclonal antibody (M03), clone 1C2

Catalog # : H00006718-M03

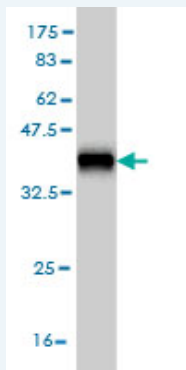
規格 : [ 100 ug ]

[List All](#)

### Specification

<b>Product Description:</b>	Mouse monoclonal antibody raised against a partial recombinant AKR1D1.
<b>Immunogen:</b>	AKR1D1 (NP_005980, 227 a.a. ~ 326 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Sequence:</b>	NPIWVNVSSPPLLKDALLNSLGKRYNKTAQIVLRFNIQRGVWVIPKSFNLE RIKENFQIFDFSLTTEEMKDIEALNKNVRFVELLMWRDHPEYPFHDEY
<b>Host:</b>	Mouse
<b>Reactivity:</b>	Human
<b>Isotype:</b>	IgG2b Kappa

**Quality Control Testing:** Antibody Reactive Against Recombinant Protein.



Western Blot detection against Immunogen (36.74 KDa) .

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**MSDS:** [Download](#)

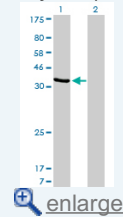
**Datasheet:** [Download](#)

### Applications

Western Blot (Transfected lysate)

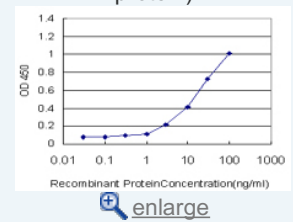
### Application Image

Western Blot (Transfected lysate)



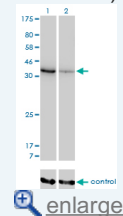
Western Blot (Recombinant protein)

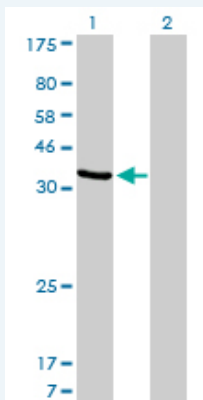
Sandwich ELISA (Recombinant protein)



ELISA

RNAi Knockdown (Antibody validated)





Western Blot analysis of AKR1D1 expression in transfected 293T cell line by AKR1D1 monoclonal antibody (M03), clone 1C2.

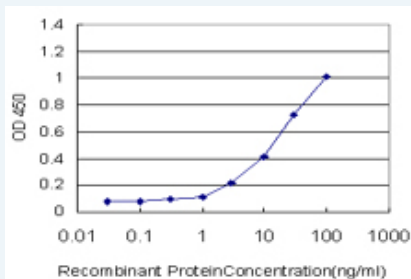
Lane 1: AKR1D1 transfected lysate(37.4 kDa).  
Lane 2: Non-transfected lysate.

[Protocol Download](#)

### Western Blot (Recombinant protein)

[Protocol Download](#)

### Sandwich ELISA (Recombinant protein)

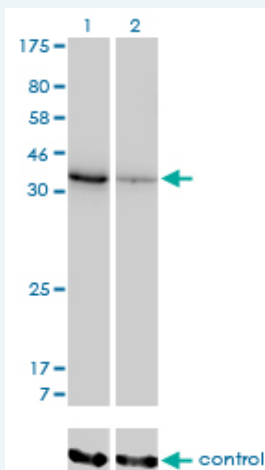


Detection limit for recombinant GST tagged AKR1D1 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

### ELISA

#### RNAi Knockdown (Antibody validated)



Western blot analysis of AKR1D1 over-expressed 293 cell line, cotransfected with AKR1D1 Validated Chimera RNAi ( Cat # H00006718-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with AKR1D1 monoclonal antibody (M03), clone 1C2 (Cat # H00006718-M03 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.

[Protocol Download](#)

### Gene Information

Entrez GeneID: [6718](#)

**GeneBank Accession#:** [NM\\_005989](#)

**Protein Accession#:** [NP\\_005980](#)

**Gene Name:** AKR1D1

**Gene Alias:** 3o5bred,SRD5B1

**Gene Description:** aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)

**Omim ID:** [604741](#)

**Gene Ontology:** [Hyperlink](#)

**Gene Summary:** The enzyme encoded by this gene is responsible for the catalysis of the 5-beta-reduction of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure. Deficiency of this enzyme may contribute to hepatic dysfunction. [provided by RefSeq]

**Other Designations:** aldo-keto reductase family 1, member D1,steroid 5-beta-reductase,steroid-5-beta-reductase, beta polypeptide 1 (3-oxo-5 beta-steroid delta 4-dehydrogenase beta 1)

#### Gene Pathway

[Androgen and estrogen metabolism](#) [C21-Steroid hormone metabolism](#) [Metabolic pathways](#)  
[Primary bile acid biosynthesis](#)

#### Related Disease

[Tobacco Use Disorder](#)