# antibodies .- online.com







# anti-AKR1C1 antibody (N-Term)





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Overview	
Quantity:	100 μL
Target:	AKR1C1 (DDH)
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Horse, Rabbit, Cow, Dog, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKR1C1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human
	AKR1C1

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human AKR1C1
Sequence:	LERSLKNLQL DYVDLYLIHF PVSVKPGEEV IPKDENGKIL FDTVDLCATW
Predicted Reactivity:	Cow: 86%, Dog: 77%, Horse: 77%, Human: 100%, Pig: 77%, Rabbit: 82%, Rat: 82%
Characteristics:	This is a rabbit polyclonal antibody against AKR1C1. It was validated on Western Blot.
Purification:	Affinity Purified

# **Target Details**

Target:	AKR1C1 (DDH)
Alternative Name:	AKR1C1 (DDH Products)

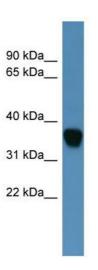
# Target Details

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	
	reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone. This gene shares	
	high sequence identity with three other gene members and is clustered with those three genes	
	at chromosome 10p15-p14.	
	Alias Symbols: 2-ALPHA-HSD, 20-ALPHA-HSD, C9, DD1, DDH, DDH1, H-37, HAKRC, MBAB,	
	MGC8954, HBAB, DD1/DD2	
	Protein Interaction Partner: PTPN3, UBC, FN1, COMMD8, MAPK3, AKR1C1,	
	Protein Size: 323	
Molecular Weight:	36 kDa	
Gene ID:	1645	
NCBI Accession:	NM_001353, NP_001344	
UniProt:	Q04828	
Pathways:	Steroid Hormone Biosynthesis, C21-Steroid Hormone Metabolic Process	
Application Details		
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.	
Comment:	Antigen size: 323 AA	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	Lot specific	
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %	
	sucrose.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	

## Handling

Storage:	-20 °C	
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.	

#### **Images**



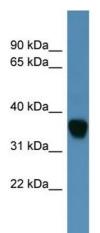
## **Western Blotting**

Image 1. WB Suggested Anti-AKR1C1 Antibody Titration:

0.2-1 ug/ml

**ELISA Titer:** 1:62500

Positive Control: Human Liver



Rabbit Anti-AKR1C1 Antibody
Catalog Number: ARP60164
Lot Number: QC31033
Lane: Fetal Liver Lysate

Antibody Titration: 1.0µg/ml Gel Concentration: 12%

## **Western Blotting**

Image 2. WB Suggested Anti-AKR1C1

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:.2500

Positive Control: Human Liver