

For Research Use Only

# AKR1C3 Polyclonal antibody

Catalog Number: 11194-1-AP **12 Publications**



## Basic Information

<b>Catalog Number:</b> 11194-1-AP	<b>GenBank Accession Number:</b> BC019230	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 350 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8644	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P42330	
<b>Isotype:</b> IgG	<b>Full Name:</b> aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	
<b>Immunogen Catalog Number:</b> AG1674	<b>Calculated MW:</b> 323 aa, 37 kDa	
	<b>Observed MW:</b> 34 kDa	

## Applications

<b>Tested Applications:</b> WB, IP, IHC, ELISA	<b>Positive Controls:</b> WB : A549 cells, HepG2 cells, Jurkat cells, K-562 cells IP : HepG2 cells, IHC : human prostate cancer tissue,
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

AKR1C3(Aldo-keto reductase family 1 member C3) is also named as DDH1, HSD17B5, KIAA0119, PGFS and belongs to AKR1C family. In humans, at least four AKR1C isoforms exist: AKR1C1, AKR1C2, AKR1C3, AKR1C4 and AKR1C3 shares >86% sequence identity with these three highly related human AKRs(PMID:18574251). It catalyzes the conversion of aldehydes and ketones to alcohols and androgen, estrogen, PG, xenobiotics metabolism. The rat kidney possesses a dimeric form of 75 kDa(PMID:18574251).

## Notable Publications

Author	Pubmed ID	Journal	Application
Chengfei Liu	31308078	Mol Cancer Ther	WB
Yang Liu	36566714	Eur J Med Chem	WB
Li Haili H	23403520	Int J Mol Med	WB

## Storage

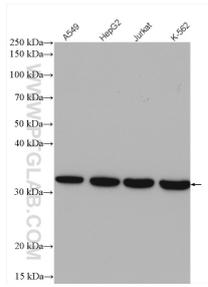
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

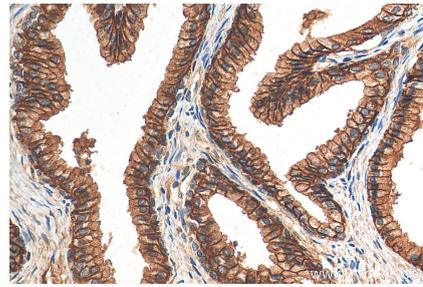
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

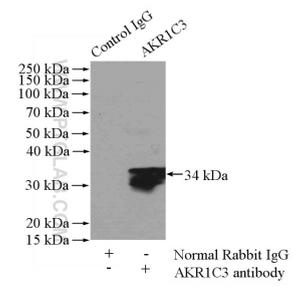
## Selected Validation Data



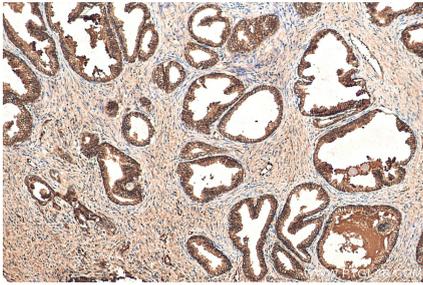
Various lysates were subjected to SDS PAGE followed by western blot with 11194-1-AP (AKR1C3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11194-1-AP (AKR1C3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-AKR1C3 (IP:11194-1-AP, 4ug; Detection:11194-1-AP 1:1000) with HepG2 cells lysate 2400ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11194-1-AP (AKR1C3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).