

For Research Use Only

# AKR1C3 Polyclonal antibody

Catalog Number: 11194-1-AP

12 Publications



## Basic Information

### Catalog Number:

11194-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1674

### GenBank Accession Number:

BC019230

### GeneID (NCBI):

8644

### UNIPROT ID:

P42330

### Full Name:

aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)

### Calculated MW:

323 aa, 37 kDa

### Observed MW:

34 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

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

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : A549 cells, HepG2 cells, Jurkat cells, K-562 cells

IP : HepG2 cells,

IHC : human prostate cancer tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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

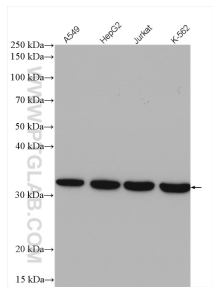
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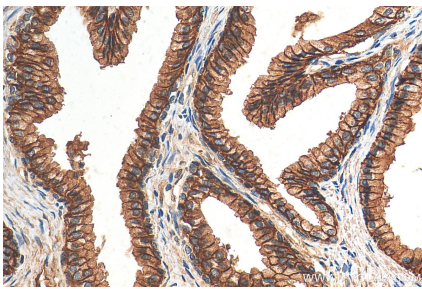
E: proteintech@ptglab.com  
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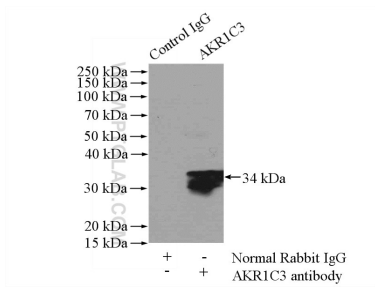
Selected Validation Data



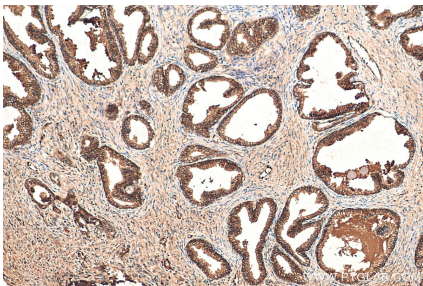
Various lysates were subjected to SDS PAGE followed by western blot with 11194-1-AP (AKR1C3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).