

For Research Use Only

AKR1C3 Polyclonal antibody

Catalog Number: 11194-1-AP **7 Publications**



Basic Information

Catalog Number: 11194-1-AP	GenBank Accession Number: BC019230	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 8644	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
Source: Rabbit	Full Name: aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	
Isotype: IgG	Calculated MW: 323 aa, 37 kDa	
Immunogen Catalog Number: AG1674	Observed MW: 34 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : A549 cells, HepG2 cells, Jurkat cells, K-562 cells IP : HepG2 cells, IHC : human prostate cancer tissue,
Cited Applications: IHC, WB	
Species Specificity: human	
Cited Species: human, rat, mouse	

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

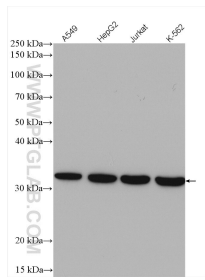
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

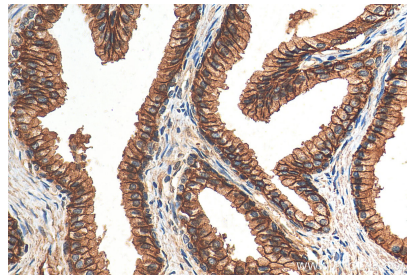
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

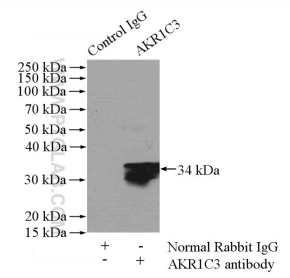
Selected Validation Data



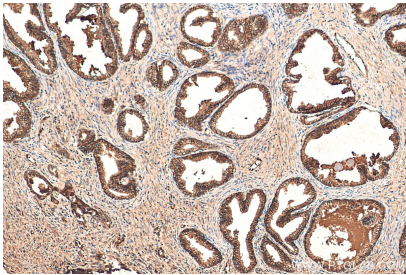
Various lysates were subjected to SDS PAGE followed by western blot with 11194-1-AP (AKR1C3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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, 4 μ g; Detection:11194-1-AP 1:1000) with HepG2 cells lysate 2400 μ g.



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).