

For Research Use Only

# AKR7A2 Polyclonal antibody

Catalog Number: 10730-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

10730-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1049

### GenBank Accession Number:

BC007352

### GeneID (NCBI):

8574

### UNIPROT ID:

O43488

### Full Name:

aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)

### Calculated MW:

40 kDa

### Observed MW:

35-40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:100-1:400

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

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

### Positive Controls:

WB : mouse liver tissue, HepG2 cells, A431 cells, HEK-293 cells

IHC : human liver cancer tissue,

## Background Information

AKR7A2(Aflatoxin B1 aldehyde reductase member 2) is also named as AFAR, AFAR1, AKR7 and belongs to the aldo/keto reductase family. AKR7A2 enzyme is catalytically active toward aldehydes arising from lipid peroxidation, suggesting a potential role against the consequences of oxidative stress, and representing an important detoxication route in mammalian cells (PMID:22001351).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaohan Zhai	35179299	Environ Toxicol	WB
Cui Yazhou Y	19077459	Pancreatol	WB,IHC

## 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

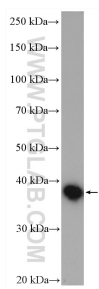
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

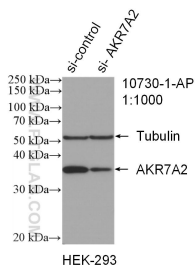
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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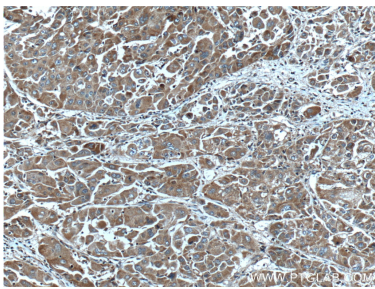
Selected Validation Data



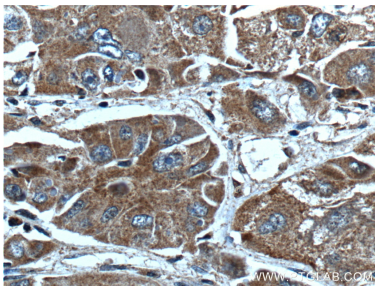
mouse liver tissue were subjected to SDS PAGE followed by western blot with 10730-1-AP (AKR7A2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



WB result of AKR7A2 antibody (10730-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKR7A2 transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10730-1-AP (AKR7A2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10730-1-AP (AKR7A2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).