

For Research Use Only

# AKR7A2 Polyclonal antibody

Catalog Number: 10730-1-AP

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 10730-1-AP	<b>GenBank Accession Number:</b> BC007352	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 300 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8574	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:100-1:400
<b>Source:</b> Rabbit	<b>Full Name:</b> aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 40 kDa	
<b>Immunogen Catalog Number:</b> AG1049	<b>Observed MW:</b> 35-40 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB: mouse liver tissue, HepG2 cells, A431 cells, HEK-293 cells IHC: human liver cancer tissue,
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> 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**

## 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	Pancreatology	WB, IHC

## Storage

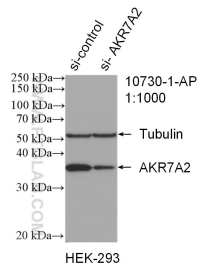
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

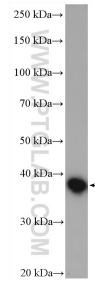
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

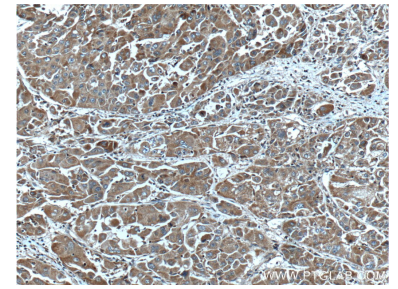
## Selected Validation Data



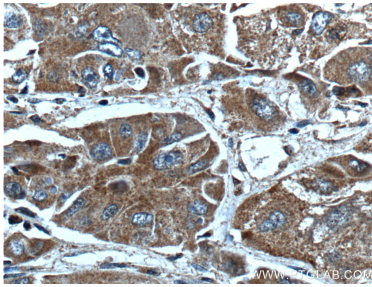
WB result of AKR7A2 antibody (10730-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKR7A2 transfected HEK-293 cells.



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.



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).