

For Research Use Only

# AKR7A2 Monoclonal antibody

Catalog Number: 66677-1-Ig

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 66677-1-Ig	<b>GenBank Accession Number:</b> BC007352	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1400 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8574	<b>CloneNo.:</b> 2E1E8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O43488	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:150-1:600 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)	
<b>Immunogen Catalog Number:</b> AG26105	<b>Calculated MW:</b> 40 kDa	
	<b>Observed MW:</b> 35-40 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, HEK-293 cells IHC : human liver cancer tissue, IF/ICC : HepG2 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human	
<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

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
Dan Li	38484826	Chem Biol Interact	WB

## Storage

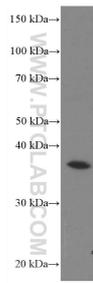
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

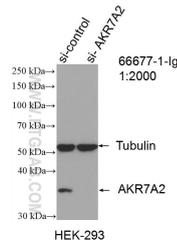
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

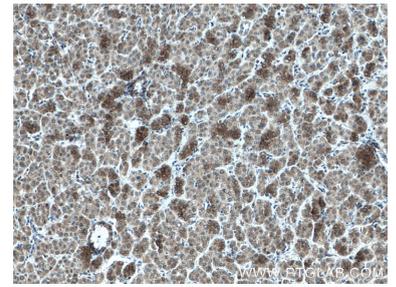
## Selected Validation Data



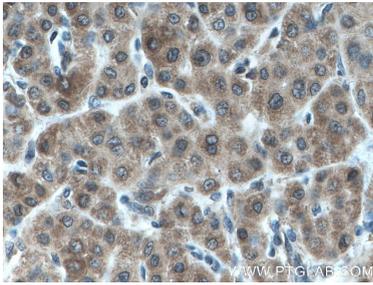
Jurkat cells were subjected to SDS PAGE followed by western blot with 66677-1-Ig (AKR7A2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



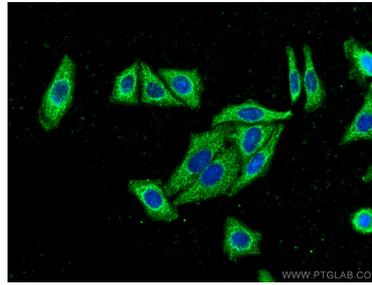
WB result of AKR7A2 antibody (66677-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKR7A2 transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66677-1-Ig (AKR7A2 antibody) at dilution of 1:300 (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 66677-1-Ig (AKR7A2 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using AKR7A2 antibody (66677-1-Ig, Clone: 2E1E8 ) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).