

For Research Use Only

AKR7A2 Monoclonal antibody

Catalog Number: 66677-1-Ig

Featured Product

1 Publications



Basic Information

Catalog Number:

66677-1-Ig

Size:

1400 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG26105

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:

Protein G purification

CloneNo.:

2E1E8

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:150-1:600

IF/ICC 1:200-1:800

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

human

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: Jurkat cells, HEK-293 cells

IHC: human liver cancer tissue,

IF/ICC: HepG2 cells,

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

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

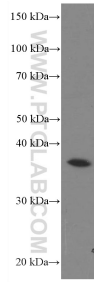
T: 4006900926

E: Proteintech-CN@ptglab.com

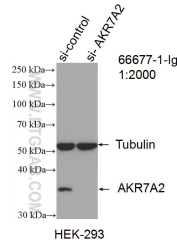
W: ptgcn.com

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

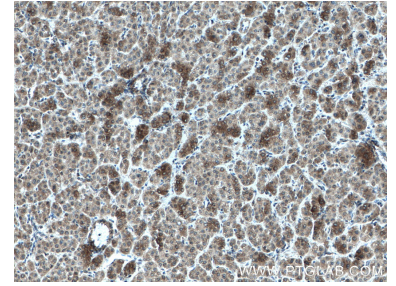
Selected Validation Data



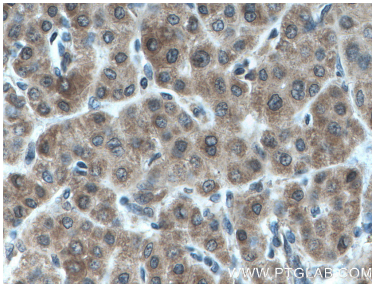
Jurkat cells were subjected to SDS PAGE followed by western blot with 66677-1-Ig (AKR7A2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



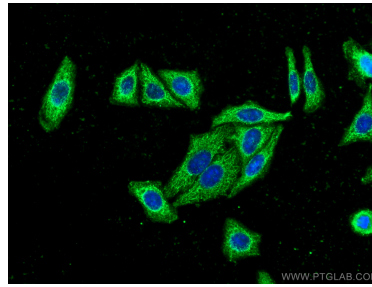
WB result of AKR7A2 antibody (66677-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKR7A2 transfected HEK-293 cells.



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).