

For Research Use Only

FOXC2 Polyclonal antibody

Catalog Number: 23066-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

23066-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19378

GenBank Accession Number:

BC113437

GeneID (NCBI):

2303

UNIPROT ID:

Q99958

Full Name:

forkhead box C2 (MFH-1,
mesenchyme forkhead 1)

Calculated MW:

501 aa, 54 kDa

Observed MW:

54-68 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, rat, mouse

Cited Species:

human, rat, mouse

Positive Controls:

WB: HCT 116 cells, rat spleen tissue, MCF-7 cells

IF: A375 cells,

Background Information

Forkhead box protein C2 (FOXC2) also known as forkhead-related protein FKHL14 (FKHL14), transcription factor FKHL14, or mesenchyme fork head protein 1 (MFH1) is a protein that in humans is encoded by the FOXC2 gene. FOXC2 is a member of the fork head box (FOX) family of transcription factors. FOX transcription factors are expressed during development and are associated with a number of cellular and developmental differentiation processes. FOXC2 is required during early development of the kidneys, including differentiation of podocytes and maturation of the glomerular basement membrane. It is also involved in the early development of the heart. FOXC2 is also involved in cancer metastases. In particular, expression of FOXC2 is induced when epithelial cells undergo an epithelial-mesenchymal transition (EMT) and become mesenchymal looking cells. (PMID: 8674414 9169153 19935708) This antibody recognizes the 56 kDa FOXC2 protein, but the phosphorylated FOXC2 may be a 56-65 kDa protein. The 62kDa band was also detected in the study(PMID: 19540201).

Notable Publications

Author	Pubmed ID	Journal	Application
Jianwen Liao	36106596	J Neurotrauma	WB
Fei-Xiang Lin	27904711	Am J Transl Res	WB
Qiu-Yue Lin	33783987	Clin Transl 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

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

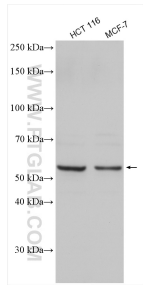
T: 4006900926

E: Proteintech-CN@ptglab.com

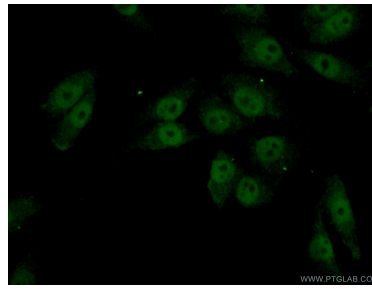
W: ptgcn.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 23066-1-AP (FOXC2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A375 cells using 23066-1-AP (FOXC2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).