

For Research Use Only

FOXC2 Monoclonal antibody

Catalog Number: 68384-1-Ig **1 Publications**



Basic Information

Catalog Number: 68384-1-Ig	GenBank Accession Number: BC113437	Purification Method: Protein A purification
Size: 150ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 2303	CloneNo.: 3E3E1
Source: Mouse	Full Name: forkhead box C2 (MFH-1, mesenchyme forkhead 1)	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500
Isotype: IgG2b	Calculated MW: 501 aa, 54 kDa	
Immunogen Catalog Number: AG19378	Observed MW: 56 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : hTERT-RPE1 cells, U-87 MG cells, rat kidney tissue, rat heart tissue, rat adipose tissue, pig adipose tissue IHC : human breast cancer tissue,
Cited Applications: IF	
Species Specificity: Human, Rat, Pig	
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

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)

Notable Publications

Author	Pubmed ID	Journal	Application
Nick A Kuburich	37979166	Cell Rep	IF

Storage

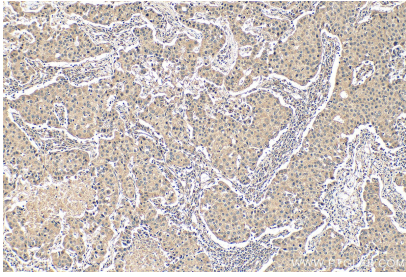
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

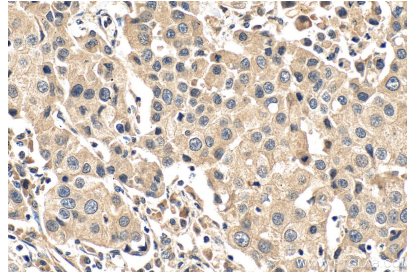
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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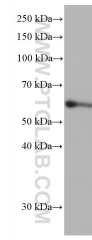
Selected Validation Data



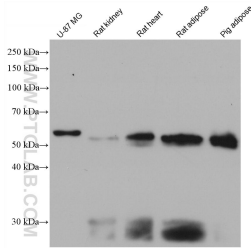
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 68384-1-Ig (FOXC2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 68384-1-Ig (FOXC2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



hTERT-RPE1 cells were subjected to SDS PAGE followed by western blot with 68384-1-Ig (FOXC2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 68384-1-Ig (FOXC2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.