

For Research Use Only

# FOXC2 Recombinant antibody, PBS Only (Detector)

Catalog Number: 83476-5-PBS



## Basic Information

<b>Catalog Number:</b> 83476-5-PBS	<b>GenBank Accession Number:</b> NM_005251	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2303	<b>CloneNo.:</b> 240403H7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99958	
<b>Isotype:</b> IgG	<b>Full Name:</b> forkhead box C2 (MFH-1, mesenchyme forkhead 1)	
<b>Immunogen Catalog Number:</b> AG33121	<b>Calculated MW:</b> 54kd	

## Applications

**Tested Applications:**  
IF/ICC, FC (Intra), Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human

## Product Information

83476-5-PBS targets FOXC2 as part of a matched antibody pair:

MP00470-4: 83476-7-PBS capture and 83476-5-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

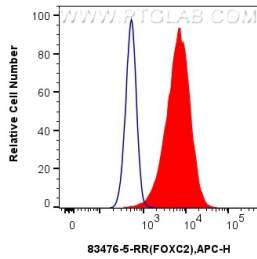
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

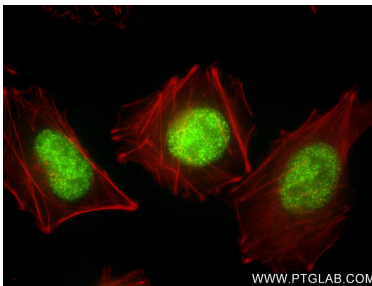
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

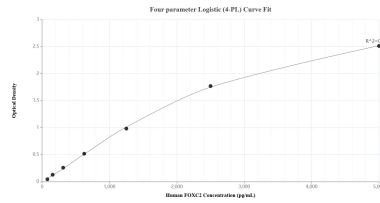
## Selected Validation Data



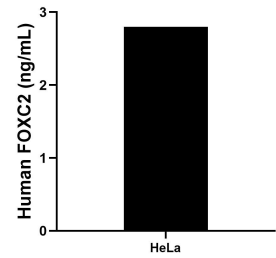
1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug FOXC2 Recombinant antibody (83476-5-RR, Clone:240403H7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83476-5-PBS in a different storage buffer formulation.



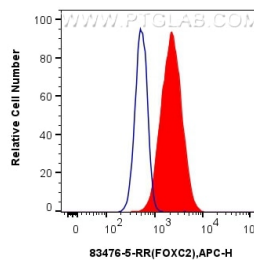
Immunofluorescent analysis of (4% PFA) fixed A375 cells using FOXC2 antibody (83476-5-RR, Clone: 240403H7 ) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83476-5-PBS in a different storage buffer formulation.



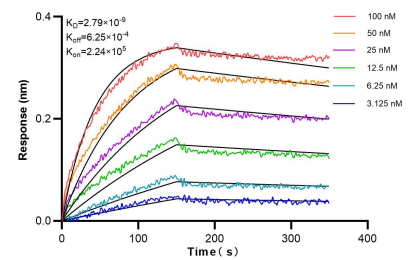
Sandwich ELISA standard curve of MP00470-4, Human FOXC2 Recombinant Matched Antibody Pair - PBS only. 83476-7-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag33121. 83476-5-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL



The mean FOXC2 concentration was determined to be 2.8 ng/mL in HeLa cell extract based on a 1.5 mg/mL extract load.



1x10<sup>6</sup> A549 cells were intracellularly stained with 0.25 ug FOXC2 Recombinant antibody (83476-5-RR, Clone:240403H7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83476-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83476-5-RR against Human FOXC2 were performed. The affinity constant is 2.79 nM.