

For Research Use Only

# FO XK2 Recombinant antibody, PBS Only

Catalog Number: 83735-4-PBS



## Basic Information

**Catalog Number:**

83735-4-PBS

**Size:**

100ug , Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG33625

**GenBank Accession Number:**

NM\_004514.3

**GeneID (NCBI):**

3607

**UNIPROT ID:**

Q01167

**Full Name:**

forkhead box K2

**Calculated MW:**

69 kDa

**Observed MW:**

69-79 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

240692A5

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, FC (Intra), ELISA

**Species Specificity:**

human

## Background Information

FO XK2 (forkhead box K2), also known as ILF and ILF1. FO XK2 is localized at nucleus and cytoplasm. It is also expected to be expressed in testis, brain and lymphoid and non-lymphoid cells (PMID: 1339390). The protein encoded by this gene contains a fork head DNA binding domain. This protein can bind to the purine-rich motifs of the HIV long terminal repeat (LTR), and to the similar purine-rich motif in the interleukin 2 (IL2) promoter. It may be involved in the regulation of viral and cellular promoter elements. And its molecular weight is 69 kDa. Anett Marais demonstrate that FO XK2 is phosphorylated in a cell cycle-dependent manner. This phosphorylation peaks during M phase and is mediated by CDK-cyclin complexes. FO XK2 exhibits a periodic rise in its phosphorylation levels during the cell cycle, with hyperphosphorylation occurring in mitotic cells (PMID: 20810654).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

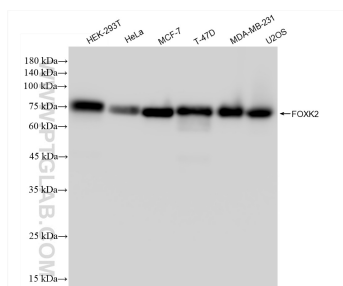
For technical support and original validation data for this product please contact:

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

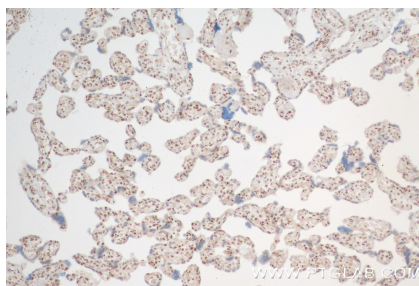
E: proteintech@ptglab.com  
W: ptglab.com

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

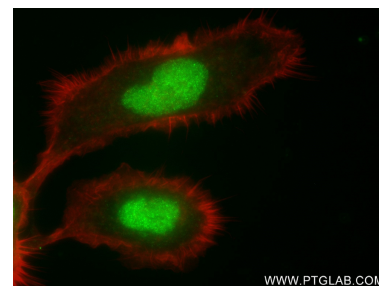
## Selected Validation Data



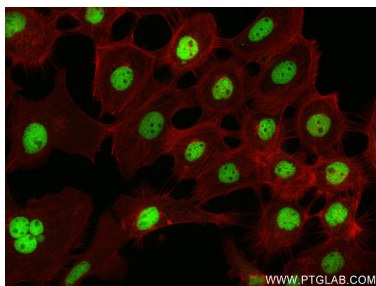
Various lysates were subjected to SDS PAGE followed by western blot with 83735-4-RR (FOXK2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83735-4-PBS in a different storage buffer formulation.



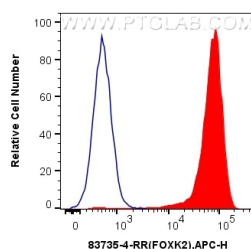
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83735-4-RR (FOXK2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83735-4-PBS in a different storage buffer formulation.



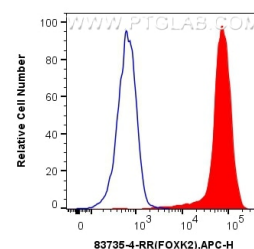
Immunofluorescent analysis of (4% PFA) fixed A431 cells using FOXK2 antibody (83735-4-RR, Clone: 240692A5) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83735-4-PBS in a different storage buffer formulation.



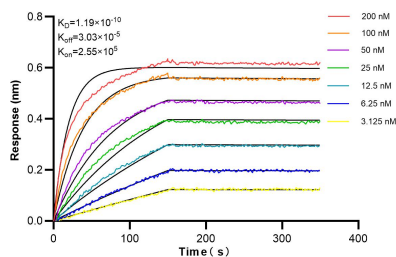
Immunofluorescent analysis of (4% PFA) fixed A431 cells using FOXK2 antibody (83735-4-RR, Clone: 240692A5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83735-4-PBS in a different storage buffer formulation.



1x10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.25 ug FOXK2 Recombinant antibody (83735-4-RR, Clone:240692A5) 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 83735-4-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HEK-293T cells were intracellularly stained with 0.25 ug FOXK2 Recombinant antibody (83735-4-RR, Clone:240692A5) 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 83735-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83735-4-RR against Human FOXK2 were performed. The affinity constant is 0.119 nM.