

For Research Use Only

# FO XK2 Recombinant antibody

Catalog Number: 83735-4-RR

Featured Product



## Basic Information

Catalog Number:

83735-4-RR

Size:

100ul, Concentration: 1000 ug/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

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

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

Species Specificity:

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 : HEK-293T cells, HAP1 cells, HeLa cells, MCF-7 cells, T-47D cells, MDA-MB-231 cells, U2OS cells

IHC : human placenta tissue,

IF/ICC : A431 cells,

## Background Information

FOXK2 (forkhead box K2), also known as ILF and ILF1. FOXK2 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 FOXK2 is phosphorylated in a cell cycle-dependent manner. This phosphorylation peaks during M phase and is mediated by CDK-cyclin complexes. FOXK2 exhibits a periodic rise in its phosphorylation levels during the cell cycle, with hyperphosphorylation occurring in mitotic cells (PMID: 20810654).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

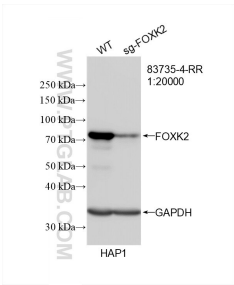
For technical support and original validation data for this product please contact:

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

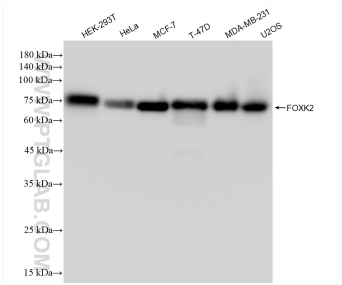
E: proteintech@ptglab.com  
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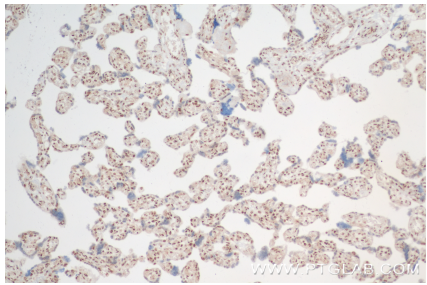
Selected Validation Data



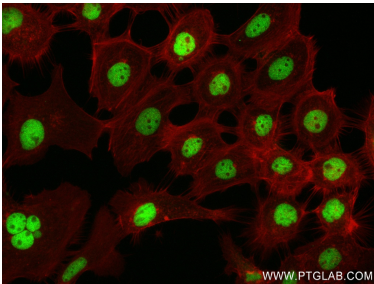
WB result of FOXK2 antibody (83735-4-RR; 1:20000; room temperature for 1.5 hours) with wild-type and sg-FOXK2 transfected HAP1 cells.



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.



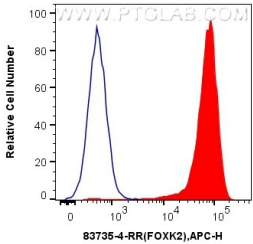
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83735-4-RR (FOXK2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



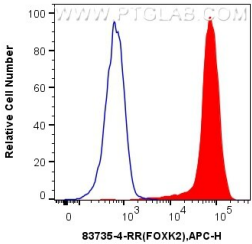
Immunofluorescent analysis of (4% PFA) fixed A431 cells using FOXK2 antibody (83735-4-RR, Clone: 240692A5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



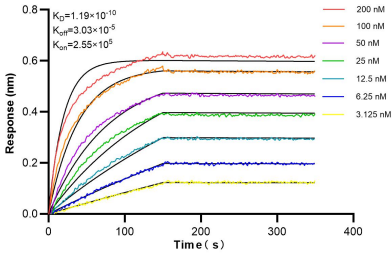
Immunofluorescent analysis of (4% PFA) fixed A431 cells using FOXK2 antibody (83735-4-RR, Clone: 240692A5) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



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).



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).



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