

For Research Use Only

FO XK2 Polyclonal antibody

Catalog Number: 30660-1-AP

Featured Product



Basic Information

Catalog Number:

30660-1-AP

Concentration:

500 ug/ml

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:1000-1:4000

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse

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-10A cells, MCF-7 cells, MDA-MB-231 cells, T-47D cells

IHC : mouse brain tissue,

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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

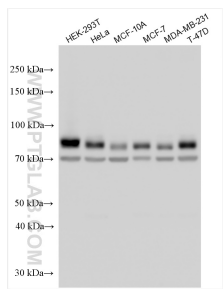
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E: Proteintech-CN@ptglab.com

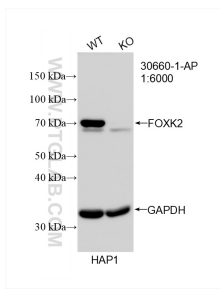
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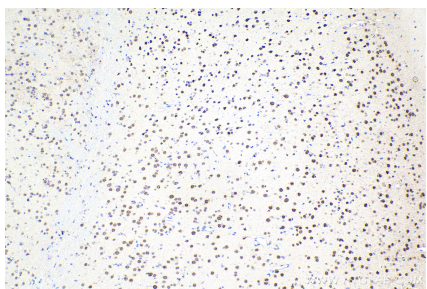
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30660-1-AP (FOXK2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of FOXK2 antibody (30660-1-AP; 1:6000; room temperature for 1.5 hours) with wild-type and FOXK2 knockout HAP1 cells.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 30660-1-AP (FOXK2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).