

For Research Use Only

# IK Polyclonal antibody

Catalog Number: 31833-1-AP



## Basic Information

<b>Catalog Number:</b> 31833-1-AP	<b>GenBank Accession Number:</b> BC013005	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 550 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3550	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1500-1:6000 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13123	
<b>Isotype:</b> IgG	<b>Full Name:</b> IK cytokine, down-regulator of HLA II	
<b>Immunogen Catalog Number:</b> AG37095	<b>Calculated MW:</b> 557 aa, 66 kDa	
	<b>Observed MW:</b> 70 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, 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, HeLa cells, HepG2 cells, SH-SY5Y cells

**IHC :** mouse testis tissue,

**IF/ICC :** A431 cells,

## Background Information

IK, also known as the nuclear protein RED, is a down-regulator of human leukocyte antigen (HLA) II and interacts with the human SAC protein MAD1, which is required for the localization of the kinetochore of MAD1, for the progression of mitosis and for the activation of the SAC. IK is therefore an important protein for the correct progression of mitosis through the regulation of mitotic kinases and phosphatases. In addition, IK may be involved in pre-mRNA splicing, which may be a useful biomarker for new nuclear structures in cells.

## 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

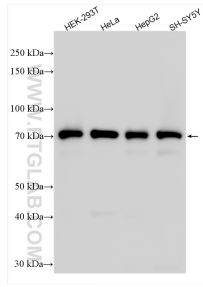
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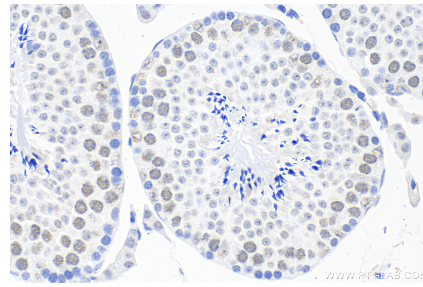
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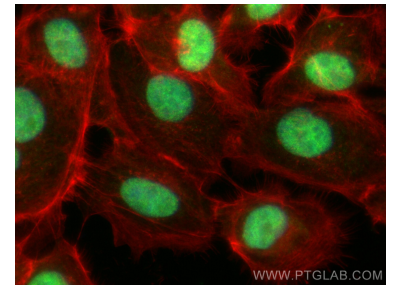
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31833-1-AP (IK antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 31833-1-AP (IK antibody) at dilution of 1:3000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using IK antibody (31833-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).