

For Research Use Only

# VRK1 Polyclonal antibody

Catalog Number: 28018-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

28018-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG27754

### GenBank Accession Number:

BC103761

### GeneID (NCBI):

7443

### UNIPROT ID:

Q99986

### Full Name:

vaccinia related kinase 1

### Calculated MW:

396 aa, 45 kDa

### Observed MW:

45-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:400-1:1600

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human

### Cited Species:

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 : HeLa cells, Jurkat cells, K-562 cells

IHC : human skin cancer tissue, human stomach tissue

## Background Information

Vaccinia-related kinase 1 (VRK1) is a members of the vaccinia-related kinase (VRK) family of serine/threonine kinases and are principally localized in the nucleus. VRK1 was initially described as a kinase with homology to B1R, a vaccinia virus kinase required for viral DNA replication and the early phase of infection. It has been suggested that VRK1 was overexpressed in numerous human tumors, such as lung carcinomas, hepatocellular carcinoma, breast carcinomas, head and neck squamous cell carcinoma. (PMID: 28927264, PMID: 29103766)

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyan He	38504696	J Inflamm Res	IHC
Ning Du	37547297	Can Respir J	WB,IHC

## 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

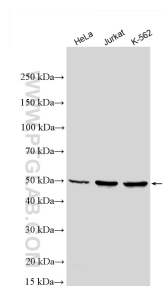
For technical support and original validation data for this product please contact:

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

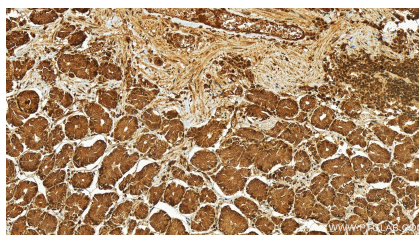
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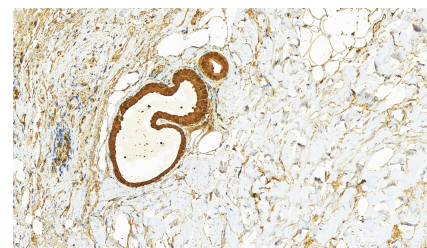
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28018-1-AP (VRK1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 28018-1-AP (VRK1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 28018-1-AP (VRK1 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).