

For Research Use Only

# AHNAK Polyclonal antibody

Catalog Number: 16637-1-AP

3 Publications



## Basic Information

### Catalog Number:

16637-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9986

### GenBank Accession Number:

BC000926

### GeneID (NCBI):

79026

### ENSEMBL Gene ID:

ENSG00000124942

### UNIPROT ID:

Q09666

### Full Name:

AHNAK nucleoprotein

### Calculated MW:

629 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

IF

### Species Specificity:

human, mouse

### Cited Species:

human

### Positive Controls:

WB : HEK-293 cells, HeLa cells

IHC : human oesophagus cancer tissue, mouse skin tissue

IF/ICC : HeLa cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

AHNAK, also known as desmoyokin, is described as a giant scaffold protein based on its large size (629 kDa) and ability to interact with different proteins to form multi-protein complexes. The bulk of the protein is assembled in 128-residue repetitive elements known as the central repeated unit (CRU). Its proposed functions are quite diverse, ranging from a role in the formation of the blood brain barrier, in cell architecture and migration, to the regulation of cardiac channels and muscle membrane repair. AHNAK is differentially expressed in some cancer cell lines. The expression of AHNAK is subsequently localized to the plasma membrane of keratinocytes in human epidermis. AHNAK has been reported in many intracellular locations including the nucleus, cytoplasm and plasma membrane.

## Notable Publications

Author	Pubmed ID	Journal	Application
Liman Li	35766885	Clin Exp Immunol	FC
Yuta Asano	34272370	Nat Commun	IF
Monami Ogura	37987447	EMBO Rep	IF

## 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

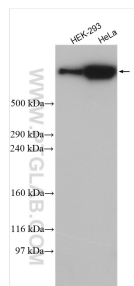
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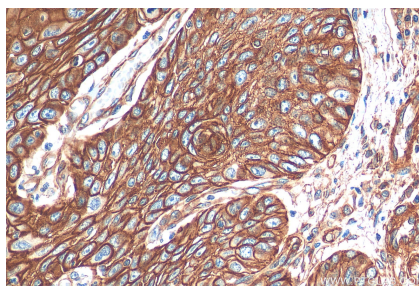
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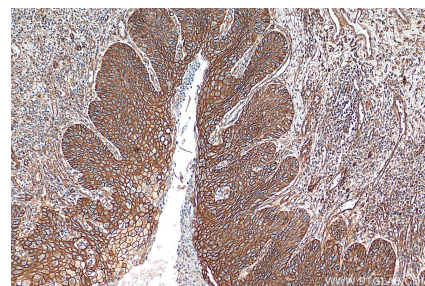
## Selected Validation Data



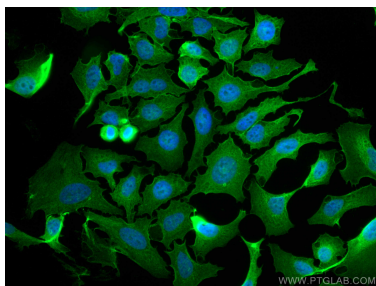
Various lysates were subjected to Tris-Acetate gel system followed by western blot with 16637-1-AP (AHNAK antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using 16637-1-AP (AHNAK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using 16637-1-AP (AHNAK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using AHNAK antibody (16637-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).