

For Research Use Only

# AHNAK Polyclonal antibody

Catalog Number: 16637-1-AP

3 Publications



## Basic Information

Catalog Number:

16637-1-AP

Size:

750 ug/ml

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

**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-293 cells, HeLa cells

IHC : human oesophagus cancer tissue, mouse skin tissue

IF/ICC : HeLa cells,

## 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

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

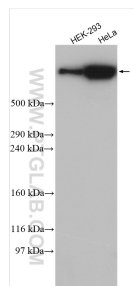
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

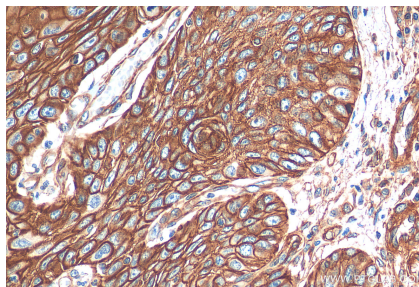
W: [ptgcn.com](http://ptgcn.com)

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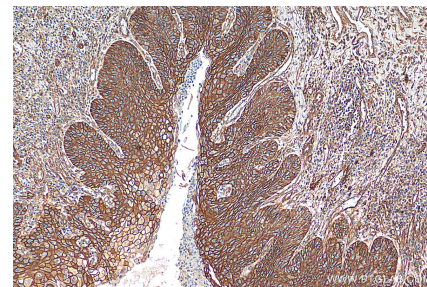
## Selected Validation Data



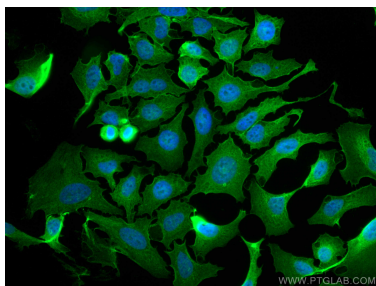
Various lysates were subjected to Tris-Acetate gel system followed by western blot with 16637-1-AP (AHNAK antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).