

For Research Use Only

# Integrin Alpha 4 Polyclonal antibody



Catalog Number: 19676-1-AP

Featured Product

4 Publications

## Basic Information

### Catalog Number:

19676-1-AP

### Size:

150UL, Concentration: 600 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_000885

### GeneID (NCBI):

3676

### Full Name:

integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)

### Calculated MW:

115 kDa

### Observed MW:

140-150 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:20-1:200

## Applications

### Tested Applications:

FC, IHC, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human

### Cited Species:

human, mouse, rat

### Positive Controls:

WB: Jurkat cells,

IHC: human tonsillitis tissue,

**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

ITGA4, also named as CD49D, belongs to the integrin alpha chain family. ITGA4 is a receptor for fibronectin, VCAM1 and MADCAM1. ITGA4 recognizes one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. It recognizes the sequence Q-I-D-S in VCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells ITGA4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells.

## Notable Publications

Author	Pubmed ID	Journal	Application
Masayoshi Ohkuro	29773794	Nat Commun	WB
Chunai Gong	32546174	J Nanobiotechnology	WB
Xiao-Ping Zhao	25661735	Cancer Lett	WB

## 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

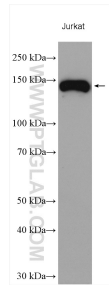
For technical support and original validation data for this product please contact:

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

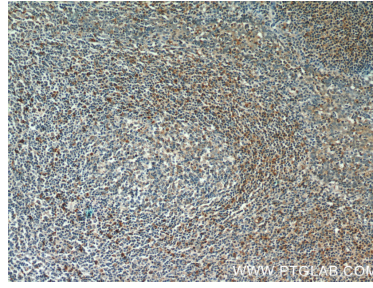
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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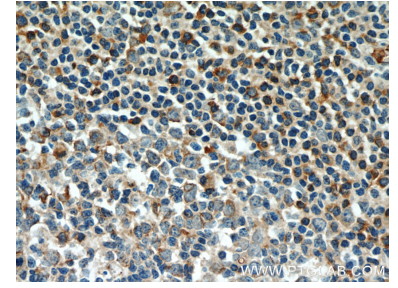
## Selected Validation Data



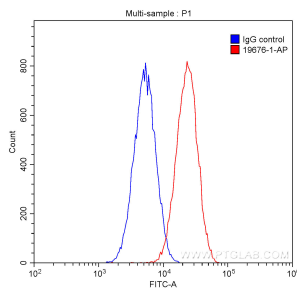
Jurkat cells were subjected to SDS PAGE followed by western blot with 19676-1-AP (Integrin alpha-4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 19676-1-AP (Integrin alpha-4 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 19676-1-AP (Integrin alpha-4 Antibody) at dilution of 1:50.



$1 \times 10^6$  Jurkat cells were stained with 0.20ug Anti-Human Integrin alpha-4 (19676-1-AP) (red) or 0.20 ug control antibody (blue) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000. Cells were fixed with 90% MeOH.