

For Research Use Only

Integrin Alpha 4 Polyclonal antibody



Catalog Number: 19676-1-AP

Featured Product

8 Publications

Basic Information

Catalog Number: 19676-1-AP	GenBank Accession Number: NM_000885	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3676	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:20-1:200
Source: Rabbit	Full Name: integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	
Isotype: IgG	Calculated MW: 115 kDa	
	Observed MW: 140-150 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls: WB : Jurkat cells, IHC : human tonsillitis tissue,
Cited Applications: WB	
Species Specificity: human	
Cited Species: human, mouse, rat	

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
Vincent Yi-Fong Su	34074039	Int J Mol Sci	WB
Ceshu Gao	34022890	J Neuroinflammation	WB
Masayoshi Ohkuro	29773794	Nat Commun	WB

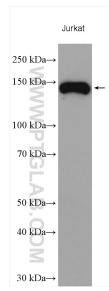
Storage

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
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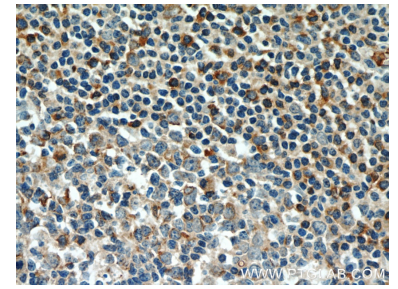
Selected Validation Data



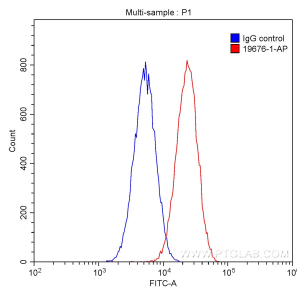
Jurkat cells were subjected to SDS PAGE followed by western blot with 19676-1-AP (Integrin alpha-4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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.



1X10⁶ 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.