

For Research Use Only

CD18 Polyclonal antibody

Catalog Number: 10554-1-AP

Featured Product

26 Publications



Basic Information

Catalog Number: 10554-1-AP	GenBank Accession Number: BC005861	Purification Method: Antigen affinity purification
Size: 450 µg/ml	GeneID (NCBI): 3689	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	ENSEMBL Gene ID: ENSG00000160255	
Isotype: IgG	UNIPROT ID: P05107	
Immunogen Catalog Number: AG0861	Full Name: integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	
	Calculated MW: 85 kDa	
	Observed MW: 85-90 kDa	

Applications

Tested Applications: FC, IF-P, IHC, WB, ELISA	Positive Controls: WB : U-937 cells, IHC : human tonsillitis tissue, IF : human tonsillitis tissue,
Cited Applications: WB, IF, FC, IHC	
Species Specificity: human, mouse	
Cited Species: human, mouse, pig	
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

CD18, also known as integrin beta-2, is a transmembrane protein that forms heterodimers with CD11a, CD11b, CD11c, CD11d (PMID: 1968349). CD11a/CD18 (LFA-1) is expressed by all leukocytes, while CD11b/CD18 (Mac-1) and CD11c/CD18 (p150,95) are normally restricted to expression on monocytes, macrophages, polymorphonuclear lymphocytes (PMNs), and natural killer cells (PMID: 1968349; 3109455; 10946284). CD18 plays an important role in mediating cell adhesion during immune response and defects of CD18 cause leukocyte adhesion deficiency (PMID: 3594570).

Notable Publications

Author	Pubmed ID	Journal	Application
Yali Jun	32997489	ACS Appl Mater Interfaces	WB,IF
Xiaoxin Zhang	33204328	Theranostics	WB,IHC,IF
Yiwei Xiong	29127148	J Immunol	IF

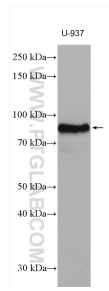
Storage

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

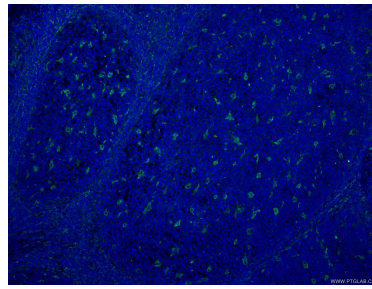
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

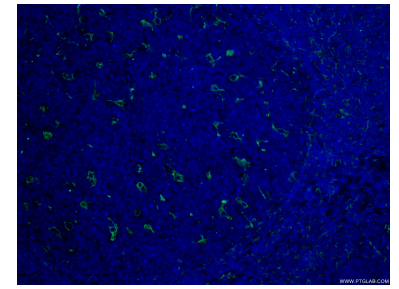
Selected Validation Data



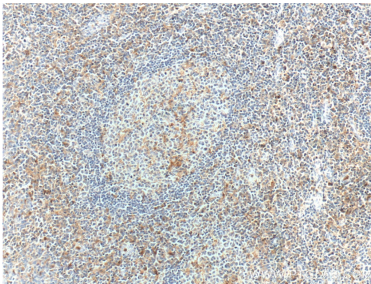
U-937 cells were subjected to SDS PAGE followed by western blot with 10554-1-AP (CD18 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



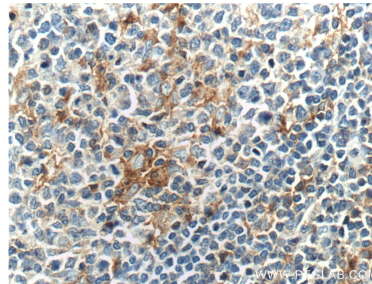
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 10554-1-AP (CD18 antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



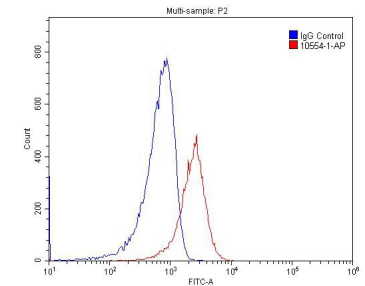
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 10554-1-AP (CD18 antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10554-1-AP (CD18 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10554-1-AP (CD18 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 RAW 264.7 cells were stained with 0.2ug CD18 antibody (10554-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.