

For Research Use Only

# CD11B/Integrin Alpha M Monoclonal antibody

Catalog Number: 66519-1-Ig 46 Publications



## Basic Information

Catalog Number: 66519-1-Ig	GenBank Accession Number: NM_000632	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 3684	CloneNo.: 1C7C2
Source: Mouse	ENSEMBL Gene ID: ENSG00000169896	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:500-1:2000 IF-P 1:50-1:500
Isotype: IgG2b	UNIPROT ID: P11215	
	Full Name: integrin, alpha M (complement component 3 receptor 3 subunit)	
	Calculated MW: 93 kDa	
	Observed MW: 160 kDa	

## Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls: WB : TF-1 cells, human bone marrow tissue
Cited Applications: WB, IHC, IF	IHC : human tonsillitis tissue,
Species Specificity: human	IF-P : human tonsillitis tissue,
Cited Species: human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated  $\alpha$  and  $\beta$  subunits (PMID: 9779984). CD11b, also known as Integrin alpha M or CR3A, belongs to the integrin alpha chain family. CD11b forms an  $\alpha$  /  $\beta$  heterodimer with CD18 (integrin  $\beta$  2). CD11b/CD18 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles and pathogens (PMID: 9558116; 20008295). CD11b/CD18 is a receptor for the complement protein fragment iC3b, and is also a receptor for fibrinogen, factor X and ICAM1 (PMID: 2971974; 15485828).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yao-Juan Chu	33101289	Front Immunol	IF
Lei Jia	36110890	Stem Cells Int	IF
Houhong Zhou	36386141	Front Pharmacol	IHC

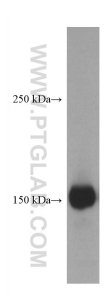
## Storage

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

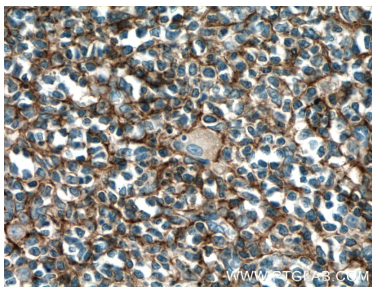
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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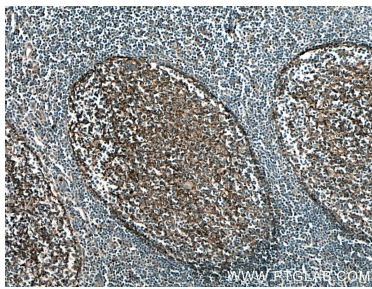
Selected Validation Data



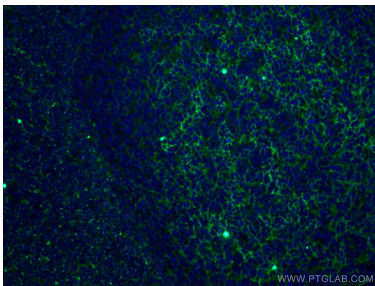
TF-1 cells were subjected to SDS PAGE followed by western blot with 66519-1-Ig (CD11B/Integrin alpha M antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



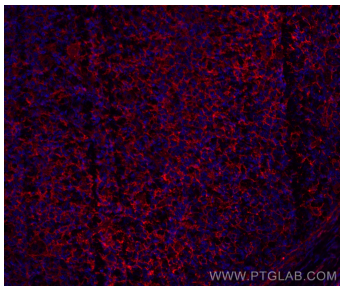
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66519-1-Ig (CD11B/Integrin alpha M antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66519-1-Ig (CD11B/Integrin alpha M antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66519-1-Ig (CD11B/Integrin alpha M antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue slide using CD11B/Integrin Alpha M antibody (66519-1-Ig, Clone: 1C7C2 ) at dilution of 1:200 and CoraLite® 594-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-3). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).