

For Research Use Only

# CD18 Recombinant monoclonal antibody

Catalog Number: 87449-1-RR



## Basic Information

<b>Catalog Number:</b> 87449-1-RR	<b>GenBank Accession Number:</b> GeneID (NCBI): 3689	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000160255	<b>CloneNo.:</b> 252742C2
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P05107	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:250-1:1000
<b>Immunogen Catalog Number:</b> EG10481	<b>Full Name:</b> integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	
	<b>Observed MW:</b> 90-100 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
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 : Jurkat cells, THP-1 cells

IHC : human tonsillitis tissue,

IF/ICC : THP-1 cells,

## 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 the immune response, and defects of CD18 cause leukocyte adhesion deficiency (PMID: 3594570).

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

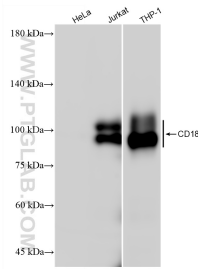
T: 4006900926

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

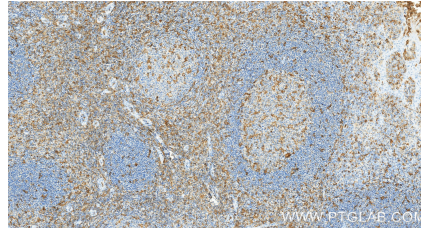
W: [ptgcn.com](http://ptgcn.com)

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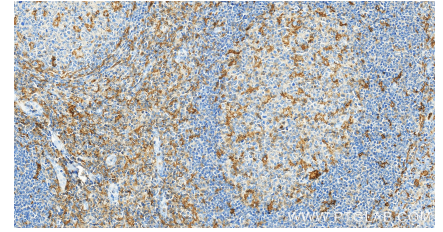
## Selected Validation Data



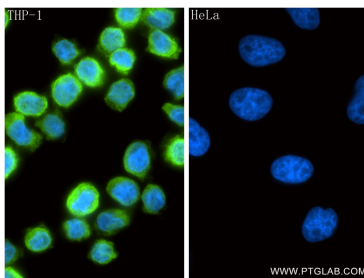
Various lysates were subjected to SDS PAGE followed by western blot with 87449-1-RR (ITB2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



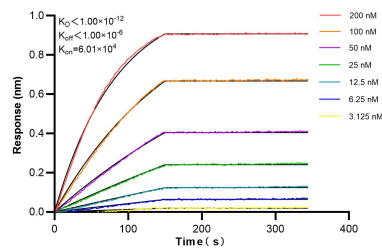
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 87449-1-RR (CD18 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (4% PFA) fixed THP-1 cells (positive) and HeLa cells (Negative) using CD18 antibody (87449-1-RR, Clone: 252742C2) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 87449-1-RR against Human CD18 were performed. The affinity constant is below 1 pM.