

For Research Use Only

CD18 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87449-1-PBS



Basic Information

Catalog Number:

87449-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG10481

GenBank Accession Number:

GeneID (NCBI):

3689

ENSEMBL Gene ID:

ENSG00000160255

UNIPROT ID:

P05107

Full Name:

integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)

Observed MW:

90-100 kDa

Purification Method:

Protein A purification

CloneNo.:

252742C2

Applications

Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

human

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 -80°C.

Storage Buffer:

PBS only, pH7.3

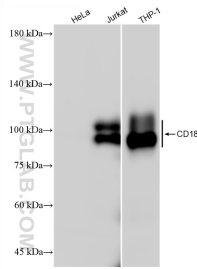
For technical support and original validation data for this product please contact:

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

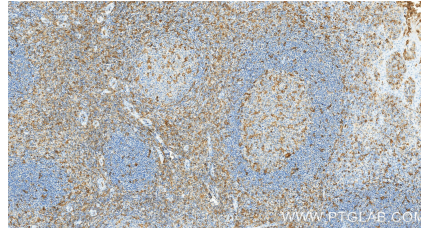
E: proteintech@ptglab.com
W: ptglab.com

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

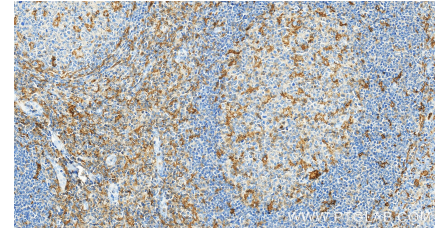
Selected Validation Data



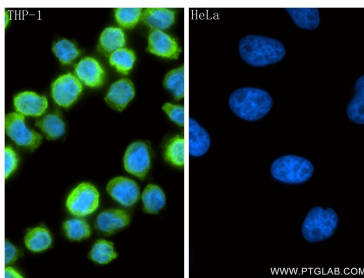
Various lysates were subjected to SDS PAGE followed by western blot with 87449-1-RR (ITB2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87449-1-PBS in a different storage buffer formulation.



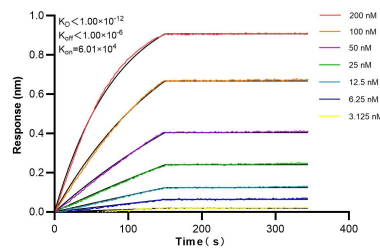
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 87449-1-RR (CD18 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87449-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 87449-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 87449-1-PBS in a different storage buffer formulation.



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