

For Research Use Only

CD45 Recombinant antibody

Catalog Number: 80297-1-RR

1 Publications



Basic Information

Catalog Number: 80297-1-RR	GenBank Accession Number: BC014239	Purification Method: Protein A purification
Size: 250 ug/ml	GeneID (NCBI): 5788	CloneNo.: 6019
Source: Rabbit	ENSEMBL Gene ID: ENSG00000081237	Recommended Dilutions: WB 1:20000-1:100000 IHC 1:4000-1:16000 IF-P 1:250-1:1000 IF-Fro 1:125-1:500 IF/ICC 1:500-1:2000
Isotype: IgG	UNIPROT ID: P08575	
Immunogen Catalog Number: AG13712	Full Name: protein tyrosine phosphatase, receptor type, C	
	Calculated MW: 1304 aa, 147 kDa	
	Observed MW: 220-240 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, IF-Fro, ELISA	Positive Controls: WB : Daudi cells, Raji cells, Ramos cells IHC : mouse colon tissue, human appendicitis tissue, human tonsillitis tissue IF-P : mouse spleen tissue, IF-Fro : mouse colon tissue, mouse spleen tissue, Jurkat cells IF/ICC : Jurkat cells,
Cited Applications: IF	
Species Specificity: human, mouse	
Cited Species: human	
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

CD45, also known as leukocyte common antigen (LCA), B220, and T200, is a 180-240 kD single chain type I membrane glycoprotein. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cells, except erythrocytes and platelets. CD45 is a signaling molecule that regulates a variety of cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 is one of the best negative selection markers for characterizing and/or isolating human mesenchymal stem cells from bone marrow and other sources. Along with the positive selection markers (such as CD29, CD44, CD90, CD105 and CD166), negative selection markers (such as CD34 and CD45) are used for MSC identification.

Notable Publications

Author	Pubmed ID	Journal	Application
Siyang Li	36463319	Commun Biol	IF

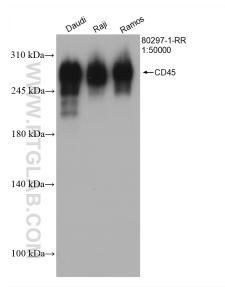
Storage

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

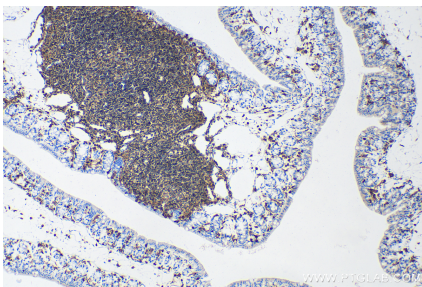
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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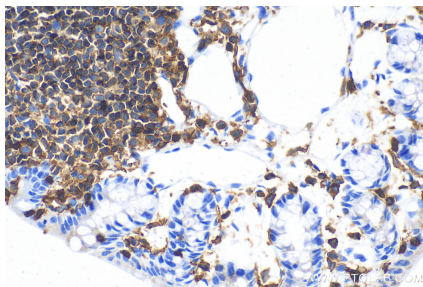
Selected Validation Data



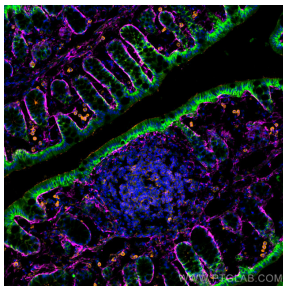
Various lysates were subjected to SDS PAGE followed by western blot with 80297-1-RR (CD45 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



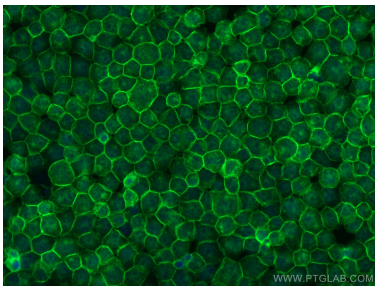
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 80297-1-RR (CD45 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



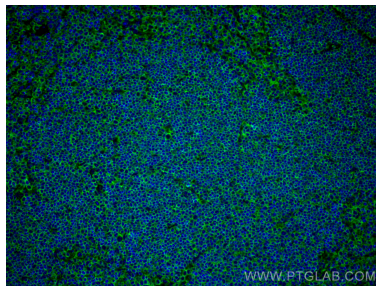
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 80297-1-RR (CD45 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescence of mouse colon: Frozen OCT-embedded mouse colon sections were stained with anti-E-cadherin antibody (20874-1-AP) labeled with CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2, green) in the frist step,anti-CD45 antibody (80297-1-RR) labeled with FlexAble CoraLite Plus 555 Kit (KFA002, orange) in the second step,anti-Collagen Type III antibody (22734-1-AP) labeled with FlexAble CoraLite647 Kit (KFA003, magenta) in the

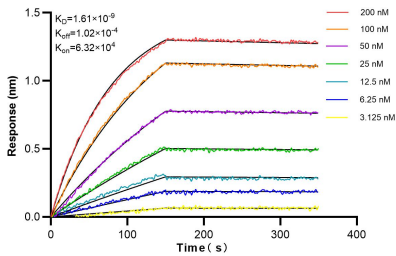


Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD45 antibody (80297-1-RR, Clone: 6019) at dilution of 1:1000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using CD45 antibody (80297-1-RR, Clone: 6019) at dilution of 1:500 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80297-1-RR (CD45 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 80297-1-RR against Human CD45 were performed. The affinity constant is 1.61 nM.