For Research Use Only

CD45 Recombinant antibody, PBS Only

Catalog Number:80297-1-PBS



Purification Method:

Protein A purification

CloneNo.:

6019

Basic Information

Catalog Number: GenBank Accession Number:

80297-1-PBS BC014239

GeneID (NCBI):

100ug, Concentration: 1mg/ml by

Nanodrop: ENSEMBL Gene ID: ENSG00000081237 Rabbit **UNIPROT ID:** Isotype: P08575 IgG Full Name:

Immunogen Catalog Number: protein tyrosine phosphatase,

AG13712 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

Species Specificity: human, mouse

Background Information

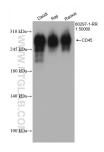
CD45, also known as leukocyte common antigen (LCA), B220, and T200, is a 180-240 kD single chain type I membrane glycoprotein. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cells, except erythrocytes and platelets. CD45 is a signaling molecule that regulates a variety 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.

Storage

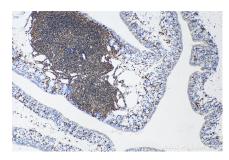
Storage: Store at -80°C. Storage Buffer: PBS Only

in USA), or 1(312) 455-8498 (outside USA)

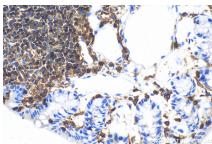
Selected Validation Data



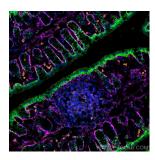
Various lysates were subjected to SDS PAGE followed by western blot with 80297-1-RR (CD45 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80297-1-PBS in a different storage buffer formulation.



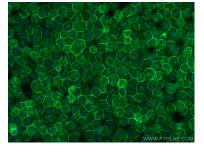
Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using 80297-1-RR (CD45 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80297-1-PBS in a different storage buffer formulation.



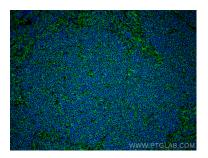
Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using 80297-1-RR (CD45 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80297-1-PBS in a different storage buffer formulation.



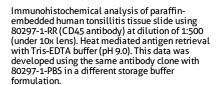
Immunofluorescence of mouse colon: Frozen OCT-embedded mouse colon sections were stained with anti-E-cadherin antibody (20874-1-AP) labeled with Coralite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2, green) in the frist step,anti-CD45 antibody (80297-1-RR) labeled with FlexAble Coralite Plus 555 Kit (KFA002, orange) in the second step,anti-Collagen Type III antibody (22734-1-AP) labeled with FlexAble Coralite647 Kit

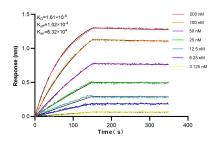


Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD45 antibody (80297-1-RR, Clone: 6019) at dilution of 1:1000 and CoraLite®488-Conjugated Affini Pure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 80297-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using CD45 antibody (80297-1-RR, Clone: 60 19) at dilution of 1:500 and CoraLite® 488-Conjugated Affini Pure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 80297-1-PBS in a different storage buffer formulation.





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