

Anti-Human CD74 Rabbit Recombinant Antibody

Catalog Number: 98478-2-RR

Basic Information

Catalog Number:

98478-2-RR

Concentration:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1945

GenBank Accession Number:

NM_001025159.3

GeneID (NCBI):

972

UNIPROT ID:

P04233-2

Full Name:

CD74 molecule, major histocompatibility complex, class II invariant chain

Calculated MW:

26 kDa

Purification Method:

Protein A purification

CloneNo.:

250520C1

Recommended Dilutions:

IHC: 1:500-1:2000

IF/ICC: 1:400-1:1600

FC: 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

IHC, IF/ICC, FC

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:

IHC : human tonsillitis tissue,

IF/ICC : Raji cells,

FC : human PBMCs,

Background Information

CD74, also known as MHC class II invariant chain Ii or HLA-DR-associated invariant chain, is a non-polymorphic type II transmembrane glycoprotein. CD74 is mainly distributed in B cells, monocytes, Langerhans cells, dendritic cells and thymic epithelial cells, and is also expressed in epithelial cells. CD74 plays a key role in MHC class II antigen processing and also serves as a cell surface receptor for the macrophage cytokine MIF. CD74 plays an important role in cardiovascular diseases such as atherosclerosis, ischemic heart disease, and myocardial hypertrophy. (PMID: 15475450; PMID: 27752708; PMID: 38992165; PMID: 36712241).

Storage

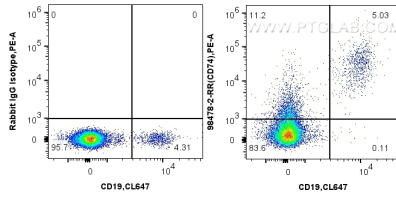
Storage:

Store at 2 - 8°C. Stable for one year after shipment.

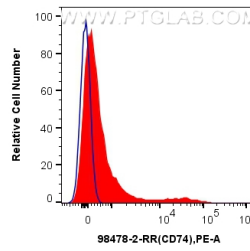
Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

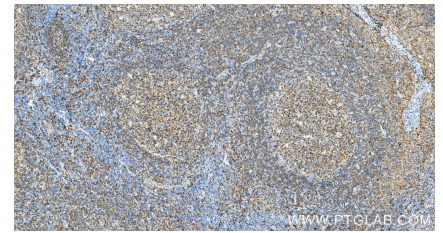
Selected Validation Data



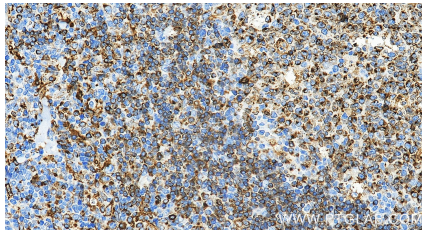
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD74 Rabbit RecAb (98478-2-RR, Clone: 250520C1) or Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were then stained with CoraLite® Plus 647 Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.



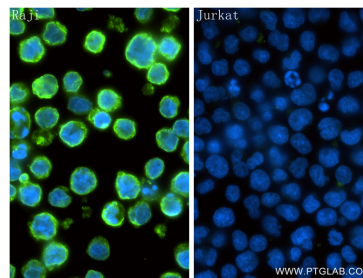
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD74 Rabbit RecAb (98478-2-RR, Clone: 250520C1) (red) or Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. Lymphocytes were gated.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 98478-2-RR (CD74 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 98478-2-RR (CD74 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Raji cells using CD74 antibody (98478-2-RR, Clone: 250520C1) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).