

Mouse anti-Human CD74 Monoclonal Antibody | anti-CD74 antibody

Anti-CD74 Antibody, Mouse Monoclonal

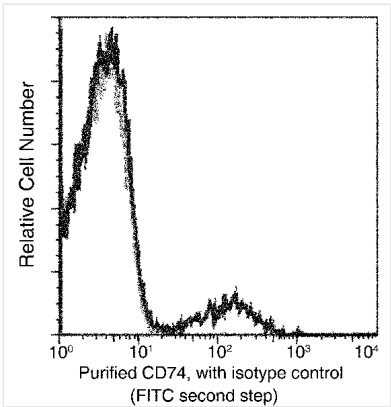
CATALOG # AAA255318	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay, Immunohistochemistry
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PRODUCT SYNONYMS

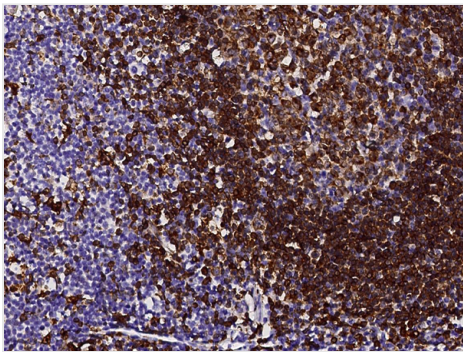
CD74; Monoclonal Antibody; Anti-CD74 Antibody; Mouse Monoclonal; CD74 Antibody; Mouse MAb; CD74 molecule; major histocompatibility complex; class II invariant chain; Anti-DHLAG Antibody; Anti-HLADG Antibody; Anti-Ia-GAMMA Antibody; Anti-II Antibody; anti-CD74 antibody

PRODUCT SPECIFICATIONS

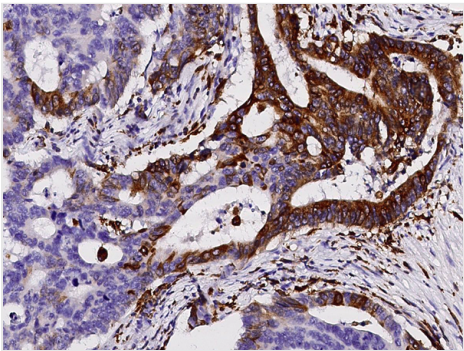
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	01
Specificity	Human CD74
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CD74 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen	Recombinant Human CD74 protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD74 (rh CD74). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



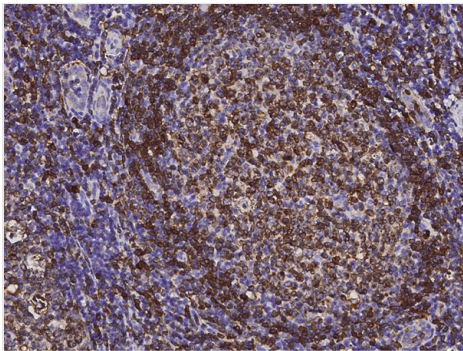
FCM/FACS (Flow Cytometry)
Flow cytometric analysis of Human CD74 expression on human whole blood lymphocytes. Cells were stained with purified anti-Human CD74, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes.



IHC (Immunohistochemistry)
Immunochemical staining of human CD74 in human appendix with mouse monoclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining of human CD74 in human colon carcinoma with mouse monoclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining of human CD74 in human tonsil with mouse monoclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-CD74 antibody	The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD74, also known as HLA class2 histocompatibility antigen gamma chain and HLA-DR antigens-associated invariant chain, is a polypeptide involved in the formation and transport of MHC class2 protein. CD74 is expressed by B cells, macrophages, and Reed-Sternberg cells. When MHC class 2 protein was in the rough ER, its peptide-binding cleft was blocked by CD74 to prevent it from interacting with the endogenous peptides. CD74 also serves to facilitate MHC class2's export from ER.
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.Moynes R, et al. (1997) A marker to distinguish atypical fibroxanthoma from malignant fibrous histiocytoma. Cancer. 79 (11): 2115-24.Gabrielle FA, et al. (2008) Regulation of dendritic cell migration by CD74, the MHC class 2-associated invariant chain. Science. 322 (5908): 1705-10.Leng L, et al. (2003) MIF signal transduction initiated by binding to CD74. JEM.197 (11): 1467-76.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835071
NCBI GeneID	972

NCBI Accession #	NP_004346.1
NCBI GenBank Nucleotide #	NM_004355.3
UniProt Accession #	P04233 ; Q14597 ; Q29832 ; Q5U0J8 ; Q8SNA0 ; Q8WLP6 ; A8K7R1 ; B4DNE8 ; D3DQG3 ; D3DQG4
Molecular Weight	18,328 Da
NCBI Official Full Name	HLA class II histocompatibility antigen gamma chain isoform b
NCBI Official Synonym Full Names	CD74 molecule, major histocompatibility complex, class II invariant chain
NCBI Official Symbol	CD74
NCBI Official Synonym Symbols	II; DHLAG; HLADG; Ia-GAMMA
NCBI Protein Information	HLA class II histocompatibility antigen gamma chain; p33; HLA-DR-gamma; MHC HLA-DR gamma chain; Ia-associated invariant chain; gamma chain of class II antigens; HLA-DR antigens-associated invariant chain; CD74 antigen (invariant polypeptide of major histo
UniProt Protein Name	HLA class II histocompatibility antigen gamma chain
UniProt Gene Name	CD74
UniProt Synonym Gene Names	DHLAG; li
UniProt Entry Name	HG2A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd74-antibody-clone-01-flow-cytometry-immunohistochemistry-elisa/255318>