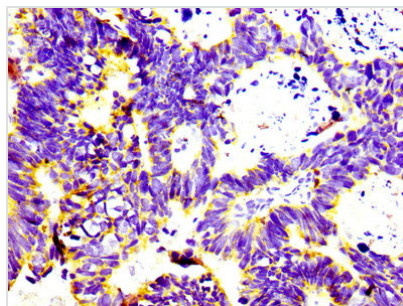




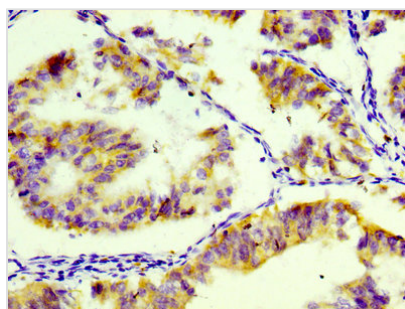
CD74 Recombinant Monoclonal Antibody

Product Code	CSB-RA004956A0HU
Abbreviation	HLA class II histocompatibility antigen gamma chain
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P04233
Immunogen	A synthesized peptide
Species Reactivity	Human
Tested Applications	ELISA, IHC, FC; Recommended dilution: IHC:1:50-1:500
Relevance	Plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha/beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to the endosomal/lysosomal system where the antigen processing and binding of antigenic peptides to MHC class II takes place. Serves as cell surface receptor for the cytokine MIF.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	HLA class II histocompatibility antigen gamma chain, HLA-DR antigens-associated invariant chain, Ia antigen-associated invariant chain, Ii, p33, CD74, CD74, DHLAG
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	CD74
Clone No.	8H11

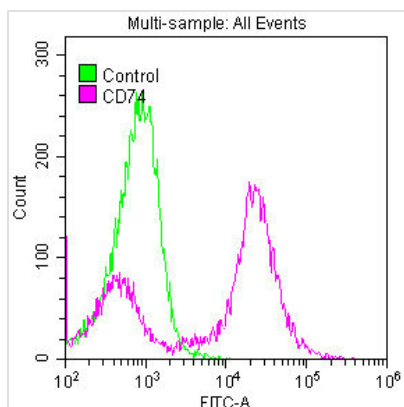
Image



IHC image of CSB-RA004956A0HU diluted at 1:100 and staining in paraffin-embedded human ovarian cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC image of CSB-RA004956A0HU diluted at 1:100 and staining in paraffin-embedded human endometrial tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Overlay histogram showing Raji cells stained with CSB-RA004956A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Description

The rabbit IgG recombinant CD74 monoclonal antibody specifically targets the human CD74. The DNA encoding the CD74 monoclonal antibody was inserted into the plasmid and subsequently transfected into the cell line for expression. The product was purified through the affinity-chromatography method to get the CD74 recombinant antibody. This CD74 antibody has been demonstrated to be highly specific and sensitive in ELISA, IHC, and FC applications.

CD74 plays an essential role in antigen presentation by mediating the assembly and subcellular trafficking of the MHCII complex. It also serves as a surface receptor for the pro-inflammatory cytokine macrophage migration inhibitory factor (MIF), which regulates endosomal trafficking, cell migration, and cellular signaling independently of MHCII. CD74 is upregulated in several cancers and is linked to increased proliferation and metastatic potential.