

Product datasheet for **AM33264PU-S**

DHLAG (CD74) Mouse Monoclonal Antibody [Clone ID: SPM523]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SPM523
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	ELISA: For coating, Use Antibody without BSA. Western Blot: 0.5-1 µg/ml. Flow Cytometry: 0.5-1 µg/10 ⁶ cells. Immunofluorescence: 1-2 µg/ml. Immunoprecipitation: 1-2 µg/500 µg protein lysate. Immunohistochemistry on Frozen and Formalin Fixed Paraffin Sections: 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. Positive Control: Daudi Cells, Tonsil or lymph node.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	SU-DHL-4 lymphoma cells.
Specificity:	This antibody has been shown to be useful in the differential identification in non-Hodgkin's lymphomas of the B-lymphocyte phenotype. It recognizes B-lymphocytes and many B-Cell lymphoma. Anti-CD74 stains predominantly germinal center lymphocytes and B-cell lymphomas, but rarely T-cell lymphomas. Anti-CD74 has been shown to be useful in differentiating atypical fibroxanthoma (-) from malignant fibrous histiocytoma (+). Cellular Localization: Cell surface and paranuclear globular.
Formulation:	10 mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide



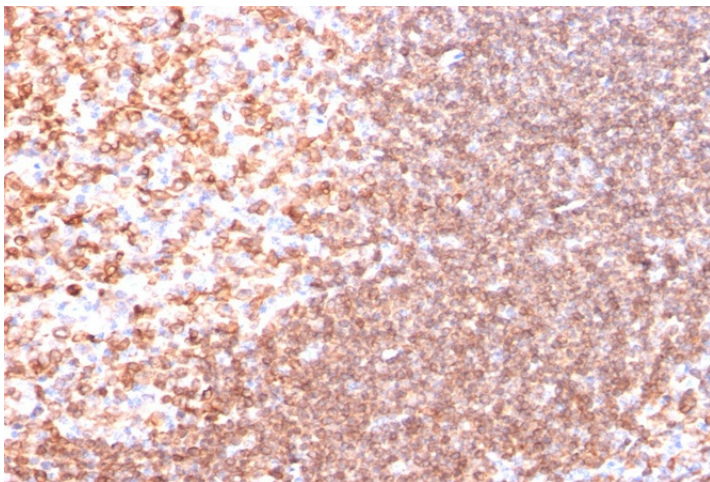
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Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	33-41 kDa
Gene Name:	CD74 molecule
Database Link:	Entrez Gene 972 Human P04233

Background: CD74, a Type-II transmembrane protein, is a unique member of RIP-processed protein family. It consists of an extracytoplasmic domain, a transmembrane segment and an intracytoplasmic domain. It is expressed in B-cells, monocytes, macrophages and other Class II MHC expressing cells. CD74 associates with alpha and beta chains of HLA-DR (MHC class II) and directs intracellular sorting of MHC class II molecules. It has a prominent role in antigen presentation and as an accessory signaling molecule. Cell-surface CD74 binds to MIF and its expression is required for MIF-mediated ERK1/2-phosphorylation, PGE2 production and cell proliferation. CD74 regulates B-cell differentiation and acts as a survival receptor through activation of NF-kB p65/RelA homodimer. Pathological role of CD74 has been identified in different cancers including Multiple Myeloma.

Synonyms:	p33, DHLAG
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Antigen processing and presentation

Product images:



Formalin Fixed, Formalin-Paraffin Human tonsil stained with CD74 Antibody (Clone SPM523). Note membrane staining.