

CD74 Antibody [clone BU45] (V2076)

Catalog No.	Formulation	Size
V2076-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2076-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2076SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug



Citations (6)

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Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	BU45
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	972
Localization	Cell surface and paranuclear globular
Applications	Flow Cytometry : 0.5-1ug/10 ⁶ cells Immunofluorescence : 1-2ug/ml Western Blot : 0.5-1ug/ml
Limitations	This CD74 antibody is available for research use only.



Description

This antibody recognizes proteins of 33, 35 and 41kDa, which are identified as various isoforms of CD74. The CD74 antibody epitope is localized in the extracellular domain of CD74. CD74 is a type II transmembrane protein which binds to the peptide binding groove of newly synthesized MHC class II alpha/beta heterodimers and prevents their premature association with endogenous polypeptides. The CD74 molecule plays a critical role in the presentation of peptides, by the MHC class II antigens, to CD4 positive lymphocytes. CD74 is expressed on MHC class II positive cells including B cells, a subset of activated T cells, monocytes, dendritic cells and by various types of carcinomas. CD74 is expressed primarily by antigen presenting cells, such as B-lymphocytes (from before the pre-B cell stage to before the plasma cell stage), macrophages, and monocytes, and many epithelial cells. CD74 antibody stains predominantly germinal center lymphocytes and B-cell lymphomas, but rarely T-cell lymphomas. CD74 antibody has been shown to be useful in differentiating atypical fibroxanthoma (-) from malignant fibrous histiocytoma (+).

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titrated up or down for optimal performance.

Immunogen

The B lymphoblastoid cell line HFB1 was used as the immunogen for this antibody.

Storage

Store the CD74 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CLIP, DHLAG, Gamma chain of class II antigens, HLA class II histocompatibility antigen gamma chain, HLA-DR antigens-associated invariant chain, HLADR-gamma (HLADG), Ia antigen-associated invariant chain, Ia-gamma, Major histocompatibility complex class II invariant chain, MHC HLA-DR gamma chain, CD74 antibody

References (1)