

# Product Datasheet

## CD74 Antibody (Bu45)

### NB100-64354

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-64354**

CD74 Antibody (Bu45)

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	Bu45
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS (pH 7.4)
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	972
<b>Gene Symbol</b>	CD74
<b>Species</b>	Human
<b>Reactivity Notes</b>	Reacts with Human.
<b>Specificity/Sensitivity</b>	NB100-64354 recognizes human CD74, a type II transmembrane protein, which is also known as the MHC class II associated invariant chain. The Bu45 antibody recognizes 33, 35 and 41 kD isoforms of CD74. 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 carcinoma. Expression of CD74 is primarily intracellular with moderate expression at the cell surface of B cells and monocytes. The Bu45 antibody binds to an epitope within the extracytoplasmic domain of the CD74 molecule, which is distal from the C-terminus. *Membrane permeabilisation may enhance CD74 staining.
<b>Immunogen</b>	B lymphoblastoid cell line HFB1.
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
<b>Recommended Dilutions</b>	Flow Cytometry 1:25-1:50, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
<b>Application Notes</b>	Membrane permeabilisation may enhance CD74 staining in Flow Cytometry. The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. The use of acetone fixation for frozen sections is recommended. This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays.



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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