

# Datasheet



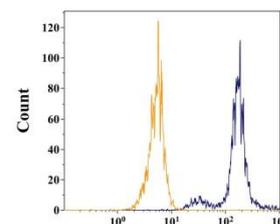
Mouse mAb to **CD74**  
Clone **EBS-CD-041**  
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with B lymphoblastoid cell line HFB1.  
Fusion partner: NS-1.

## Specifications

The CD74 cluster, established during the IV<sup>th</sup> and V<sup>th</sup> Leukocyte Typing Workshops, comprises four species of proteins (MW 41/35/33 kDa), all coded by a single gene, consisting of nine exons. 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. In tissue sections anti-CD74 show a binding pattern very similar to that of anti-HLA-DR. It binds to the peptide binding groove of newly synthesized MHC class II alpha/beta heterodimers and prevents their premature association with endogenous polypeptides. EBS-CD-041 epitope is localized in the extracellular domain of CD74.



**Figure 1:** Human PBMCs stained for CD74 (FACS)

## Species reactivity

Positive: human.

## Applications

Anti-CD74 has been shown to be useful in differentiating atypical fibroxanthoma (-) from malignant fibrous histiocytoma (+).

Flow cytometry	Frozen sections	Immunofluorescence	Western blot
+	+	+	+

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunoblotting (1-2 µg/ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30-60 min at RT; for staining of formalin-fixed tissues no suitable antigen retrieval method is known to date).

## Positive control

Daudi cells, Raji cells, tonsil, lymph node.

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## References

- Epstein A.L. et al. *J. Immunol.* **133**: 1028-1036 (1984).
- Marder, R.J. et al. *Lab. Invest.* **52**: 497-504 (1985).
- Lazova R. et al. *Cancer* **79**: 2115-2124 (1997).
- Pich, A. et al. *Eur J Basic Appl Histochem.* **35(1)**: 81-9 (1991).