Anti-CD74 antibody [LN2] ab9514

Overview

**Product name**
Anti-CD74 antibody [LN2]

**Description**
Mouse monoclonal [LN2] to CD74

**Host species**
Mouse

**Tested applications**
Suitable for: Flow Cyt, WB, IHC-Fr, IHC-P

**Species reactivity**
Reacts with: Human

**Immunogen**
SU-DHL-4 lymphoma cells.

**Positive control**
Human tonsil normal tissue lysate - total protein: Human tonsil and Human liver tissues; Raji cells

Properties

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**
Preservative: 0.1% Sodium azide
Constituent: BSA

**Purity**
Protein A/G purified

**Clonality**
Monoclonal

**Clone number**
LN2

**Myeloma**
unknown

**Isotype**
IgG1

**Light chain type**
kappa

Applications

Our Abpromise guarantee covers the use of ab9514 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
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.

Sequence similarities
Contains 1 thyroglobulin type-1 domain.

Cellular localization

Application | Abreviews | Notes
--- | --- | ---
Flow Cyt | 1/10. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. | |
WB | Use a concentration of 5 µg/ml. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa). | |
IHC-Fr | Use at an assay dependent concentration. | |
IHC-P | 1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. | |

Target

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD74 antibody [LN2] (ab9514)

Ab9514 staining CD74 in paraffin embedded Human tonsil tissue sections by Immunohistochemistry (IHC-P).
Western blot - Anti-CD74 antibody [LN2] (ab9514) at 5 µg/ml + Human tonsil normal tissue lysate - total protein (ab29615) at 10 µg

**Secondary**

Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

**Predicted band size:** 34 kDa  
**Observed band size:** 34 kDa  
**Additional bands at:** 37 kDa (possible post-translational modification)

Ab9514 staining CD74 in paraffin embedded Human tonsil tissue sections by Immunohistochemistry (IHC-P).
ab9514 staining CD74 in human liver tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with neutral buffered formalin and a heat mediated antigen retrieval step was performed using EDTA buffer pH 9.0. Samples were then blocked with 10% serum for 10 minutes at 20°C followed by incubation with the primary antibody at a 1/75 dilution for 30 minutes at 20°C. A HRP-conjugated rat anti-mouse/rabbit polyclonal was used undiluted as the secondary antibody.

Overlay histogram showing Raji cells stained with ab9514 (red line). The cells were fixed with 80% methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab9514, 1/10 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions
• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors