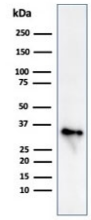
# CLIP Antibody / CD74 [clone CLIP/813] (V3180)

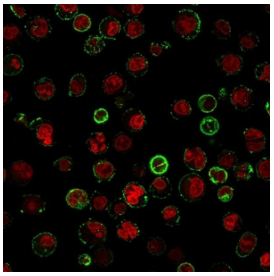
| Catalog No. | Formulation | Size |
|---|---|---|
| V3180-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V3180-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V3180SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V3180IHC-7ML | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml |

**Bulk quote request**

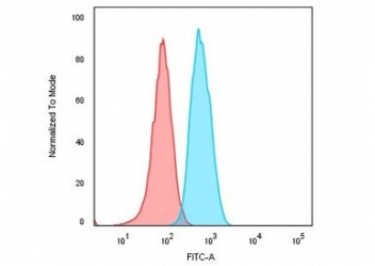
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | CLIP/813 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P04233 |
| **Localization** | Cell surface and paranuclear globular |
| **Applications** | Flow cytometry: 1-2ug/10^6 cells (methanol-fixed)<br>Immunofluorescence: 1-2ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT<br>Western blot: 1-2ug/ml |
| **Limitations** | This CLIP antibody is available for research use only. |



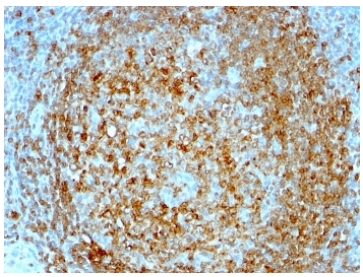

Western blot testing of human Raji cell lysate with CLIP antibody (clone CLIP/813). Expected molecular weight: 33-43 kDa.



Immunofluorescent staining of human Raji cells with CLIP antibody (green, clone CLIP/813) and Reddot nuclear stain (red).




Flow cytometry testing of human Raji cells with CLIP antibody (clone CLIP/813); Red=isotype control, Blue= CLIP antibody.



IHC analysis of formalin/paraffin human tonsil with CLIP antibody (clone CLIP/813).

## Description

Recognizes proteins of 33, 35 and 41kDa, which are identified as various isoforms of CD74/CLIP. Its epitope is localized in the extracellular domain of CD74. CD74/CLIP 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 molecule plays a critical role in the presentation of peptides, by the MHC class II antigens, to CD4 positive lymphocytes. CD74/CLIP is expressed on MHC class II positive cells including B cells, a subset of activated T cells, monocytes, and dendritic cells and by various types of carcinomas. It 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. Anti-CD74/CLIP stains predominantly germinal center lymphocytes and B-cell lymphomas, but rarely T-cell lymphomas and has been shown to be useful in differentiating atypical fibroxanthoma (-) from malignant fibrous histiocytoma (+).

## Application Notes

Optimal dilution of the CLIP antibody should be determined by the researcher.

1. 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 min.

2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Recombinant full-length human protein was used as the immunogen for the CLIP antibody. Its epitope is localized in the extracellular domain of CLIP/CD74.

## Storage

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


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