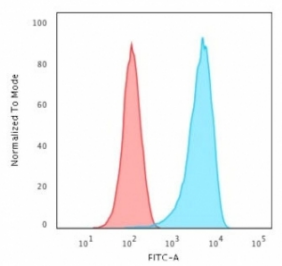
# CD43 Antibody [clone 84-3C1] (V2872)

| Catalog No. | Formulation | Size |
|---|---|---|
| V2872-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2872-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2872SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V2872IHC-7ML | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml |

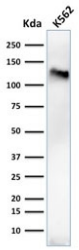
Citations (8)

**Bulk quote request**

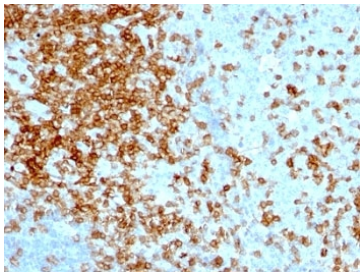
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | 84-3C1 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P16150 |
| **Localization** | Cell surface |
| **Applications** | Flow Cytometry : 1-2ug/10^6 cells<br>Immunofluorescence : 1-2ug/ml<br>Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| **Limitations** | This CD43 antibody is available for research use only. |



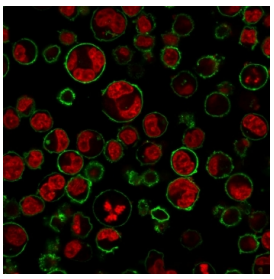

Flow cytometry testing of human K562 cells with CD43 antibody (clone 84-3C1); Red=isotype control, Blue= CD43 antibody.



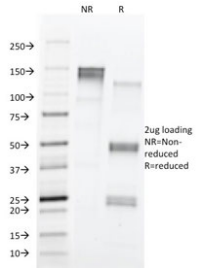

Western blot testing of human K562 cell lysate with CD43 antibody (clone 84-3C1). Predicted molecular weight 45-135 kDa depending on glycosylation level.



IHC analysis of formalin-fixed, paraffin-embedded human tonsil stained with CD43 antibody (clone 84-3C1).



Immunofluorescence staining of human K562 cells with CD43 antibody (clone 84-3C1, green) and NucSpot (red).




SDS-PAGE analysis of purified, BSA-free CD43 antibody (clone 84-3C1) as confirmation of integrity and purity.

## Description

It recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 (Workshop III). 70-90% of T-cell lymphomas and from 22-37% of B-cell lymphomas express CD43. No reactivity has been observed with reactive B-cells. So a B-lineage population that co-expresses CD43 is highly likely to be a malignant lymphoma, especially a low-grade lymphoma, rather than a reactive B-cell population. When CD43 antibody is used in combination with anti-CD20, effective immunophenotyping of the lymphomas in formalin-fixed tissues can be obtained. Co-staining of a lymphoid infiltrate with anti-CD20 and anti-CD43 argues against a reactive process and favors a diagnosis of lymphoma.

## Application Notes

Optimal dilution of the CD43 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA 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

Stimulated human leukocytes were used as the immunogen for the CD43 antibody.

## Storage

Store the CD43 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).