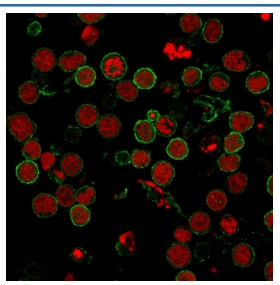
# CD6 Antibody [clone 3F7B5] (V2039)

| Catalog No. | Formulation | Size |
|---|---|---|
| V2039-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2039-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2039SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V2039IHC-7ML | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml |

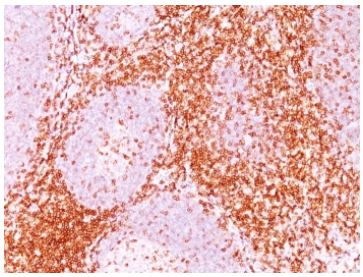
Citations (2)

**Bulk quote request**

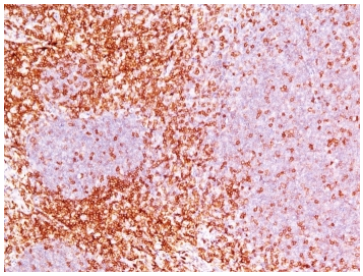
| | |
|---|---|
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | 3F7B5 |
| **Purity** | Protein G affinity chromatography |
| **Gene ID** | 923 |
| **Localization** | Cell surface and cytoplasmic |
| **Applications** | Flow cytometry: 1-2ug/million cells<br>Immunofluorescence: 1-3ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT |
| **Limitations** | This **CD6 antibody** is available for research use only. |



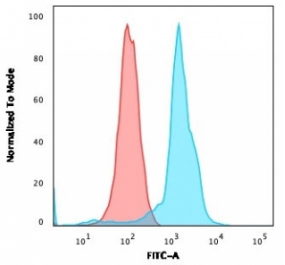
Immunofluorescent staining of human MOLT-4 cells with CD6 antibody (clone 3F7B5, green) and Reddot nuclear stain (red).



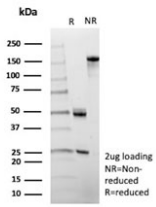
IHC staining of FFPE human tonsil tissue with CD6 antibody (clone 3F7B5). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with CD6 antibody (clone 3F7B5). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




Flow cytometry staining of human MOLT-4 cells with CD6 antibody; Red=isotype control, Blue= CD6 antibody.




SDS-PAGE analysis of purified, BSA-free CD6 antibody (clone 3F7B5) as confirmation of integrity and purity.

## Description

CD6 is a type I transmembrane glycoprotein that contains a 24-amino acid signal sequence, three extracellular scavenger receptor cysteine-rich (SRCR) domains, a membrane-spanning domain and a 44-amino acid cytoplasmic domain. The glycoprotein is tyrosine phosphorylated during TCR-mediated T cell activation. It shows significant homology to CD5. CD6 is present on mature thymocytes, peripheral T cells and a subset of B cells. CD6 antibody can be used to deplete T cells from bone marrow transplants to prevent graft versus host disease.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be tittered up or down for optimal performance.

1. 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

The human rheumatoid synovial T cell line ST-1 was used as the immunogen for this CD6 antibody.

## Storage

Store the CD6 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

## References (1)


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