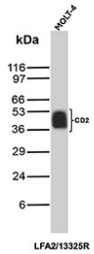
CD2 molecule Antibody [clone LFA2/13325R] (V6030)

Catalog No.	Formulation	Size
V6030-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6030-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V6030SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

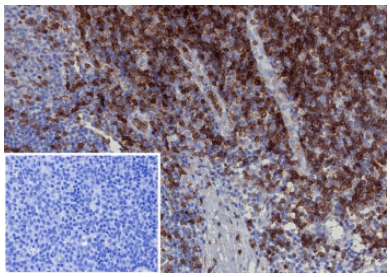
Recombinant RABBIT MONOCLONAL

Bulk quote request

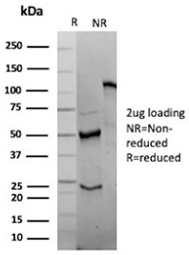
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	LFA2/13325R
UniProt	P06729
Localization	Cell membrane
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western Blot: 2-4ug/ml
Limitations	This CD2/CD2 molecule antibody is available for research use only.



Western blot analysis of CD2 antibody (clone LFA2/13325R) in human MOLT-4 cell lysate. A strong band is observed at approximately 50-55 kDa, consistent with the predicted molecular weight of CD2. The band appears relatively thick and intense, which is expected due to the high endogenous expression of CD2 in T lymphoblastic cells such as MOLT-4, as well as potential heterogeneous glycosylation that can broaden migration on SDS-PAGE. Molecular weight markers are indicated in kDa on the left.



Immunohistochemistry analysis of CD2 molecule antibody (clone LFA2/13325R) in human tonsil tissue. Formalin-fixed, paraffin-embedded tonsil demonstrates strong membranous HRP-DAB brown staining in interfollicular T lymphocytes, consistent with CD2 expression on mature T cells. Germinal center B cells show minimal to no staining, while hematoxylin counterstain highlights overall lymphoid architecture. The inset shows PBS used in place of primary antibody as a negative control, confirming absence of non-specific secondary antibody binding. Heat-induced epitope retrieval was performed by heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 minutes at 95oC followed by cooling at room temperature for 20 minutes prior to staining.



SDS-PAGE Analysis of Purified CD2 molecule antibody (clone LFA2/13325R). Confirmation of Purity and Integrity of Antibody.

Description

CD2 molecule antibody recognizes CD2 molecule, a cell surface glycoprotein encoded by the CD2 gene and commonly referred to as LFA-2 or T cell surface antigen CD2. CD2 is a single-pass transmembrane protein belonging to the immunoglobulin superfamily and is primarily expressed on T lymphocytes and natural killer cells. CD2 molecule antibody is widely used in research focused on T cell activation, immune synapse formation, and lymphoid lineage identification.

CD2 functions as an adhesion and co-stimulatory receptor that interacts with its ligand CD58, facilitating T cell adhesion to antigen-presenting cells. Structurally, CD2 contains extracellular immunoglobulin-like domains, a transmembrane region, and a cytoplasmic tail involved in intracellular signaling. Engagement of CD2 enhances T cell receptor signaling and promotes proliferation, cytokine production, and cytotoxic responses. CD2 localization is predominantly membranous, consistent with its role in cell-cell interaction within immune tissues.

In normal tissues, CD2 expression is restricted to T cells and natural killer cells within lymphoid organs, peripheral blood, and inflamed tissues. Aberrant or clonal CD2 expression patterns are relevant in studies of T cell leukemias and lymphomas. Immunostaining typically demonstrates distinct membranous labeling in T cell populations. Clone LFA2/13325R is a recombinant rabbit monoclonal antibody generated through defined sequence expression to support consistent performance and lot-to-lot reproducibility. This CD2 molecule antibody enables investigation of T cell biology, immune activation pathways, and lymphoid neoplasms in research applications.

Application Notes

1. Optimal dilution of the CD2/CD2 molecule antibody should be determined by the researcher.

2. This CD2/CD2 molecule antibody is recombinantly produced by expression in CHO cells.

Immunogen

A recombinant fragment corresponding to N-terminal of human CD2 protein (exact sequence is proprietary) was used as the immunogen for the CD2/CD2 molecule antibody.

Storage

CD2/CD2 molecule antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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