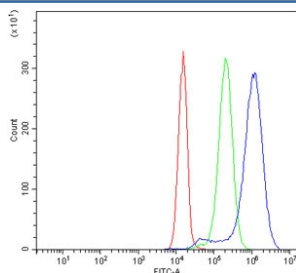


CD2 Antibody (RQ6760)

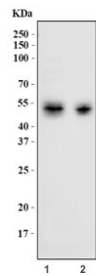
Catalog No.	Formulation	Size
RQ6760	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

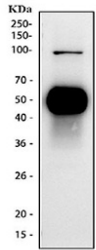
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P06729
Localization	Cell membrane, Golgi, Nucleoplasm
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunoprecipitation : 2ug per 500ug of lysate
Limitations	This CD2 antibody is available for research use only.



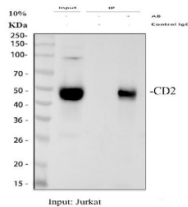
Flow cytometry testing of fixed human JK-1 cells with CD2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CD2 antibody.



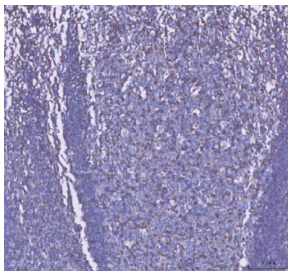
Western blot testing of human 1) MOLT4 and 2) Jurkat cell lysate with CD2 antibody. Expected molecular weight ~47 kDa.



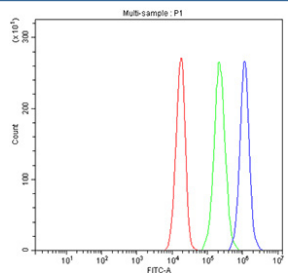
Western blot testing of human Jurkat cell lysate with CD2 antibody. Expected molecular weight ~47 kDa.



Immunoprecipitation of CD2 protein from 500ug of human Jurkat whole cell lysate with 2ug of CD2 antibody.



IHC staining of FFPE human tonsil tissue with CD2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Flow cytometry testing of fixed human JK-1 cells with CD2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CD2 antibody.

Description

CD2 is a cell surface glycoprotein expressed primarily on T cells and natural killer (NK) cells, where it plays a critical role in adhesion and signal transduction. By binding to ligands such as CD58 (LFA-3), CD2 promotes stable interactions between T cells and antigen-presenting cells, enhancing immune synapse formation and T cell activation.

This protein is also involved in regulating lymphocyte development and effector functions, making it an important marker for immune system studies. Altered CD2 expression has been associated with immune dysregulation and certain hematological malignancies.

Researchers use a CD2 antibody to study immune signaling, T cell development, and disease-related expression changes. The CD2 antibody is also useful in flow cytometry, western blotting, and immunohistochemistry. NSJ Bioreagents provides a high-quality CD2 antibody to support immunology and cancer research.

Application Notes

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

Immunogen

Recombinant human protein (amino acids V23-D209) was used as the immunogen for the CD2 antibody.

Storage

After reconstitution, the CD2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.