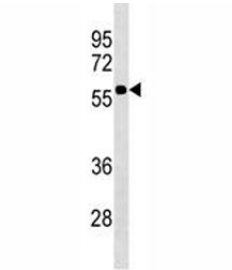
CD1A Antibody for WB / Isoform Analysis Antibody [clone 437CT28.2.1] (F53637)

Catalog No.	Formulation	Size
F53637-0.1ML	In ascites with 0.09% sodium azide	0.1 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Ascites
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	437CT28.2.1
Purity	Ascites
UniProt	P06126
Applications	Western Blot : 1:500-1:8000
Limitations	This CD1A antibody is available for research use only.



CD1A Antibody for WB. Western blot analysis of CD1A / CD1a protein expression in human Jurkat cell lysate using CD1A Antibody for WB. Lane 1: jurkat cell lysate. A band is detected at approximately 50-55 kDa, consistent with the predicted molecular weight of CD1A / CD1a (37-49 kDa). The upward shift in apparent molecular weight is consistent with glycosylated forms of CD1A, and supports analysis of CD1A isoforms and post-translationally modified variants observed as band shifts in immunoblot experiments.

Description

CD1 molecule alpha 1 (CD1A) is a membrane glycoprotein encoded by the CD1A gene that functions in lipid antigen presentation and is commonly expressed in dendritic lineage cells. CD1A Antibody for WB enables detection of CD1a protein in western blot assays, supporting studies that examine protein forms, processing states, and post-translational modifications. CD1A antibody, also known as CD1a antibody or T-cell surface glycoprotein CD1a antibody, is particularly useful in immunoblot experiments where band patterns provide insight into protein heterogeneity rather than simple presence or absence.

Western blot analysis can reveal multiple bands corresponding to different forms of a protein, including isoforms or modified variants. For CD1a, a glycosylated membrane protein, post-translational modification plays a major role in determining electrophoretic mobility. A CD1a western blot antibody is therefore well suited for identifying differences in band position that reflect variations in glycosylation, maturation, or processing across different samples or experimental conditions.

The predicted molecular weight of CD1A is approximately 49 kDa. In practice, western blot analysis may show bands at or above this size due to glycosylation, which increases the apparent molecular weight of the protein. In some cases, multiple bands may be observed, representing distinct glycosylated forms or processing intermediates. These banding patterns can provide valuable information about protein biology, cellular context, and differences in post-translational regulation.

Analysis of CD1A band patterns is particularly relevant in studies investigating protein maturation, trafficking, and functional regulation within antigen-presenting cells. Differences in glycosylation state may reflect changes in cellular activation, differentiation, or intracellular processing pathways. A CD1a western blot antibody allows researchers to monitor these changes and compare protein forms across different biological systems.

CD1A Antibody for WB is therefore especially useful for isoform and modification analysis, where interpretation of band patterns is central to the experiment. By enabling detection of CD1a across multiple molecular forms, this antibody supports detailed investigation of protein processing and regulation in immune cells.

A full range of CD1A antibody reagents for immunohistochemistry, western blot, and flow cytometry is available on our CD1A Antibody collection page.

Application Notes

Titration of the CD1A Antibody for WB / Isoform Analysis Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 76-104 from the human protein was used as the immunogen for this CD1A Antibody for WB / Isoform Analysis Antibody.

Storage

Aliquot the CD1A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

CD1a western blot antibody, CD1A isoform antibody, CD1A glycosylation analysis antibody, T-cell surface glycoprotein CD1a antibody, CD1A immunoblot antibody