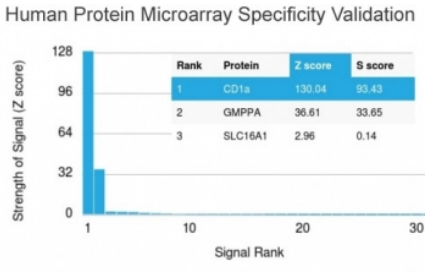
CD1A Antibody / Quantitative Specificity Validated Antibody [clone C1A/3249] (V8193)

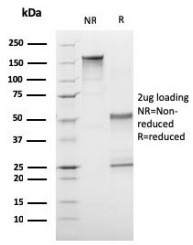
Catalog No.	Formulation	Size
V8193-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8193-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8193SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	C1A/3249
Purity	Protein G affinity chromatography
UniProt	P06126
Applications	ELISA (order BSA-free Format For Coating) :
Limitations	This CD1A antibody is available for research use only.



CD1A Antibody. Protein microarray analysis of CD1A / CD1a specificity using a HuProt(TM) array containing more than 19,000 full-length human proteins and CD1A Antibody. CD1A produces the highest signal intensity with strong separation from the next highest-ranking proteins, supporting quantitative specificity based on signal strength and distinct target discrimination. Z-score represents signal intensity relative to the array mean, while S-score reflects the degree of separation between CD1A and non-target proteins, indicating highly selective detection with clear signal distinction.



SDS-PAGE analysis of purified, BSA-free CD1A Antibody / Quantitative Specificity Validated Antibody (clone C1A/3249) as confirmation of integrity and purity.

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, also referred to as CD1a antibody or T-cell surface glycoprotein CD1a antibody, enables detection of CD1A protein in a variety of experimental systems, supporting studies of immune cell identity, antigen presentation, and cellular differentiation within complex biological environments.

CD1a expression is primarily associated with dendritic cells, including Langerhans cells in epithelial tissues and cortical thymocytes, with limited expression in most other cell types. This restricted expression profile makes CD1A a useful marker for identifying specific immune populations and evaluating their distribution across tissues and experimental conditions. Detection of CD1a contributes to analysis of immune composition, cellular heterogeneity, and changes in antigen-presenting cell populations in both normal and pathological settings.

Microarray specificity validation provides quantitative assessment of CD1A recognition by measuring signal intensity relative to a large panel of human proteins. In this format, binding is evaluated across thousands of individual protein targets, allowing direct comparison of signal strength between CD1A and non-target proteins. CD1A produces a strong and distinct signal relative to background binding, with clear separation from unrelated proteins. This signal distinction supports selective detection of CD1A and provides measurable evidence of antibody specificity within a high-content protein array environment.

Quantitative analysis of signal intensity is particularly valuable for evaluating antibody performance in applications where signal strength and specificity must be balanced. The ability to distinguish CD1A signal from background binding supports consistent detection across experiments and reduces ambiguity when interpreting results from complex samples. This approach also enables comparison of antibody behavior under different conditions, supporting reproducibility and reliability in experimental workflows.

CD1A Antibody is therefore well suited for applications requiring quantitative confidence in target detection, including studies of immune cell populations, antigen presentation, and protein expression analysis. Its performance in microarray-based specificity testing supports selective and consistent detection of CD1A, providing a strong foundation for reliable interpretation of experimental data across diverse biological systems.

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

Application Notes

Optimal dilution of the CD1A Antibody / Quantitative Specificity Validated Antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 43-173) was used as the immunogen for this CD1A Antibody / Quantitative Specificity Validated Antibody.

Storage

Store the CD1a antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD1a antibody, CD1A quantitative specificity antibody, CD1a detection antibody, T-cell surface glycoprotein CD1a antibody, signal-validated CD1A antibody