

Alexa Fluor™ 488-Labeled Human CD20 / MS4A1 Full Length Protein, His Tag (Nanodisc, Site-specific conjugation)

Catalog # CD0-HA2D4



Application

- Cell based assay ([FACS](#) or functional assay)
- Affinity testing (SPR / BLI)
- Screening (ELISA)

Synonyms

MS4A1, CD20, MS4A-1

Source

Nanodisc Alexa Fluor 488-Labeled Human CD20 Full Length Protein, His Tag (CD0-HA2D4) is produced via site-specific conjugation of AF488 to Human CD20 Protein, His Tag under optimal conditions with a proprietary technology. Human CD20 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Met 1 - Pro 297 (Accession # [P11836-1](#)).

Predicted N-terminus: Met 1

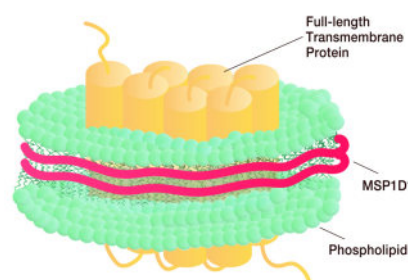
Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 36.9 kDa.

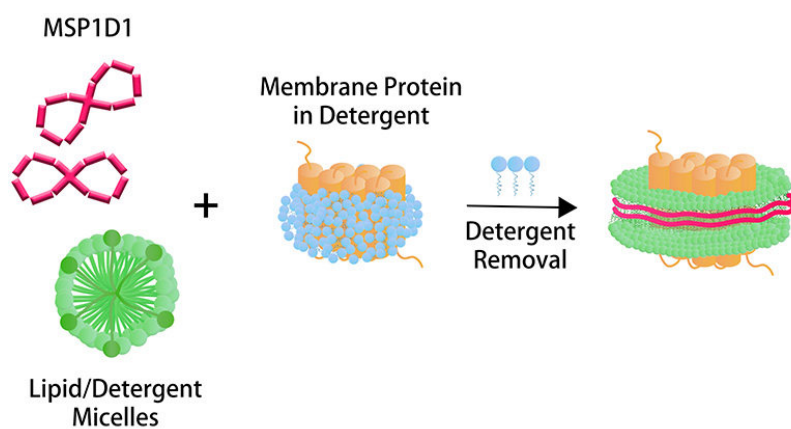
*The isotype control of empty/mock nanodisc (Cat. No. [APO-H51H3](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

• Structure



Nanodisc membrane protein is wrapped by a synthetic phospholipid bilayer membrane structure, composed of membrane scaffold proteins (MSPs) and phospholipids.

• Synthesis Process



Nanodisc reconstitution is a self-assembly process that **starts from purified, detergent-solubilized membrane proteins** and reconstitutes them into synthetic phospholipid bilayers stabilized by MSP1D1 membrane scaffold protein. This creates a stable, detergent-free environment that preserves native conformation and biological activity, with excellent homogeneity and full compatibility with **cell-based assays such as FACS** and binding assays in antibody discovery and screening (ELISA),etc.

Conjugate

AF488

Excitation Wavelength: 488 nm

Emission Wavelength: 517 nm

Formulation

Supplied as 0.2 µm filtered solution in PBS, 0.5% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please protect from light and avoid repeated freeze-thaw cycles.

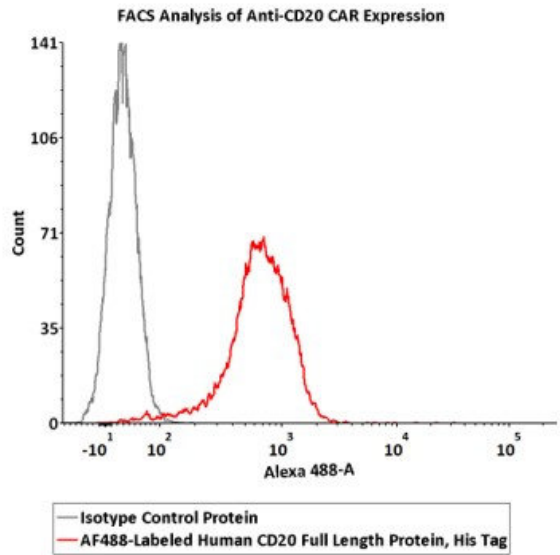
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

Bioactivity-Flow Cytometry



5e5 of Anti-CD20 CAR-293 cells were stained with 100 µL of 1:20 dilution (5 µL stock solution in 100 µL FACS buffer) of AF488-Labeled Human CD20 Full Length Protein, His Tag (Cat. No. CD0-HA2D4) and isotype control protein respectively. AF488 signal was used to evaluate the binding activity (QC tested).

Background

A B-lymphocyte surface antigen expressed from pre-B to mature B cells, but absent on plasma cells. It functions as a calcium channel and is a validated immunotherapy target, famously exploited by rituximab for treating B-cell malignancies and autoimmune disorders. This AF488-CD20 is a perfect candidate for CAR positive detection.

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