Technical Data Sheet

Oligo Mouse Anti-Human FcRL6

Product Information

Material Number:	940379
Size:	25 Tests
Clone:	2H3
Alternative Name:	Fc receptor-like protein 6; FcRH6; IFGP6; IgSF type I transmembrane receptor; fc receptor homolog 6; fcR-like protein 6
Reactivity:	Tested in Development:Human
Isotype:	Mouse BALB/c IgG2b, κ
Application:	Single Cell 3' Sequencing(Qualified)
Barcode Sequence:	TGGTCAGATTGTCGATTTAGGCCGTTTGGTGTTAGG
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.
Regulatory Status:	RUO

Description

The 2H3 monoclonal antibody specifically binds to human Fc receptor-like protein 6 (FCRL6), which is also known as Fc receptor homolog 6 (FcRH6), IFGP family protein 6 (IFGP6) or Immune receptor translocation-associated protein 6 (IRTA6). FCRL6 is a type I transmembrane glycoprotein of the Immunoglobulin (Ig) gene superfamily with 3 extracellular Ig domains. In healthy donors, FCRL6 is expressed by cytolytic CD8-positive T cells and NK cells; its expression is expanded to populations of CD4-positive T cells in HIV-1-positive patients. FCRL6 expression is associated with NK cell maturation. Human FCRL6 binds to HLA-DR, and it has a cytoplasmic immunoreceptor tyrosine-based inhibition motif (ITIM).

Application Notes

The antibody was conjugated to an oligonucleotide that contains an antibody clone-specific barcode (ABC) flanked by a poly-A tail on the 3' end and a PCR handle (PCR primer binding site) on the 5' end. The ABC for this antibody was designed to be used with other BD AbSeq oligonucleotides conjugated to other antibodies. All AbSeq ABC sequences were selected in silico to be unique from human and mouse genomes, have low predicted secondary structure, and have high Hamming distance within the BD AbSeq portfolio, to allow for sequencing error correction and unique mapping. The poly-A tail of the oligonucleotide allows the ABC to be captured by the BD Rhapsody™ system. The 5' PCR handle allows for efficient sequencing library generation for Illumina sequencing platforms.
NOTE: The BD Rhapsody Single-Cell Analysis System must be used with the BD Rhapsody Express Instrument.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography and conjugated to BD AbSeq oligonucleotide under optimal conditions.

Recommended Assay Procedure

Put all BD AbSeq Reagents to be pooled into a Latch Rack for 500 µL Tubes (Thermo Fisher Scientific Cat. No. 4900). Arrange the tubes so that they can be easily uncapped and re-capped with an 8-Channel Screw Cap Tube Capper (Thermo Fisher Scientific Cat. No. 4105MAT) and the reagents aliquoted with a multi-channel pipette.
BD AbSeq tubes should be centrifuged for ≥ 30 seconds at 400 × g to ensure removal of any content in the cap/tube threads prior to the first opening.

Suggested Companion Products

Catalog Number	Name	Size
564219	Human BD Fc Block™	50 µg
564220	Human BD Fc Block™	50 µg
554656	Stain Buffer (FBS)	500 mL
633701	Single-Cell Analysis System	1 EA
633707	Express Single-Cell Analysis System Package	1 EA

Product Notices

1. This reagent has been pre-diluted for use at the recommended volume per test. Typical use is 2 µl for 1 × 10^6 cells in a 200-µl staining reaction.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. The production process underwent stringent testing and validation to assure that it generates a high-quality conjugate with consistent performance and specific binding activity. However, verification testing has not been performed on all conjugate lots.
5. Illumina is a trademark of Illumina, Inc.
6. This product is covered by one or more of the following patents: US 8,835,358; US 9,290,808; US 9,290,809; US 9,315,857; US 9,567,645; US 9,567,646; US 9,598,736; US 9,708,659; and US 9,816,137. This product, and only in the amount purchased by buyer, may be used solely for buyer's own internal research, in a manner consistent with the accompanying product literature. No other right to use, sell or otherwise transfer (a) this product, or (b) its components is hereby granted expressly, by implication or by estoppel. Diagnostic uses require a separate license.
7. Please refer to http://regdocs.bd.com to access safety data sheets (SDS).
8. Please refer to bd.com/genomics-resources for technical protocols.

References

Schreeder DM, Cannon JP, Wu J, Li R, Shakhmatov MA, Davis RS. Cutting edge: FcR-like 6 is an MHC class II receptor.. J Immunol. 2010; 185(1):23-7. (Biology).
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Li FJ, Won WJ, Becker EJ, et al. Emerging roles for the FCRL family members in lymphocyte biology and disease.. Curr Top Microbiol Immunol. 2014; 382:29-50. (Biology).
Wilson TJ, Presti RM, Tassi I, Overton ET, Cella M, Colonna M. FcRL6, a new ITIM-bearing receptor on cytolytic cells, is broadly expressed by lymphocytes following HIV-1 infection.. Blood. 2007; 109(9):3786-93. (Immunogen).

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