

TotalSeq™-A0167 anti-human CD35 Antibody

Catalog# / Size	333407 / 10 µg
Clone	E11 (See other available formats)
Workshop	III 204
Other Names	C3b/C4b receptor, complement receptor type 1 (CR1)
Isotype	Mouse IgG1, κ
Description	CD35 is a type I single chain of glycoprotein, also known as C3b/C4b receptor, Complement Receptor type 1 or CR1. Four molecular weight allotypes (160kD, 190kD, 220kD, and 250kD) have been described. CD35 is expressed on granulocytes, monocytes, B cells, erythrocytes, and follicular dendritic cells, as well as subsets of NK and T cells. CD35 binds complement C3b, C4b, or iC3, and iC4, and plays important roles in both innate and adoptive immune response via mediating phagocytosis by granulocytes and monocytes. CD35 has also been reported to inhibit T-cell proliferation.

Product Details

Reactivity	Human, African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA.
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-A oligomer under optimal conditions. The solution is free of unconjugated DNA and unconjugated antibody.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. For Proteogenomics TotalSeq™-A analysis, the suggested use of this reagent is ≤ 1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>To maximize performance, centrifuge the antibody dilution (1.0 µg of antibody in 100 µl of staining buffer for every 1 million cells) before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Additional Product Notes	<p>TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq.</p> <p>The TotalSeq™-A barcode sequence associated with clone E11 is ACTTCGTCGATCTT.</p> <p>The flanking sequences are CCTTGGCACCCGAGAATTCCA, and the poly A tail, BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*A*A, where B represents either C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.</p> <p>The full oligomer sequence for this product, with the specific barcode in brackets is CCTTGGCACCCGAGAATTCCA [ACTTCGTCGATCTT] BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*A*A.</p>
Application References	<ol style="list-style-type: none"> Hogg N, et al. 1984. Eur. J. Immunol. 14:236 Zabeleta J, et al. 1998. Clin Diag. Lab. Immunol. 5:690 Pascual M, et. al. 1994. Eur. J. Immunol. 24:702
(PubMed link indicates BioLegend citation)	

Antigen Details

Structure	Type I glycoprotein with four allotypes, 160kD, 190kD, 220kD, 250kD
Distribution	Granulocytes, monocytes, B cells, erythrocytes, follicular dendritic cells, subsets of NK and T cells
Function	Adhesion, mediate phagocytosis, inhibit T-cell proliferation
Ligand Receptor	C3b, iC3, C4b, iC4
Cell Type	B cells, Dendritic cells, Erythrocytes, Granulocytes, Monocytes, NK cells, T cells
Biology Area	Cell Biology, Complement, Immunology, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules
Antigen References	1. Zola Heddy, et al. Eds. 2007. Leukocyte and Stromal Cell Molecules:The CD markers. WILEY-LISS 2. Klickstein LB, et al. 1988. J. Exp. Med. 168:1699
Gene ID	1378

Related Protocols

[TotalSeq™ Antibodies Protocol for Simultaneous Proteomics and Transcriptomics](#)

[TotalSeq™-A antibodies with 10X Single Cell 3' Reagent Kit v3 Protocol](#)

Other Formats

Purified anti-human CD35, FITC anti-human CD35, PE anti-human CD35

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