

TotalSeq™-A0394 anti-human CD71 Antibody

Catalog# / Size	334123 / 10 µg
Clone	CY1G4
Regulatory Status	RUO
Workshop	A015
Other Names	T9, Transferrin receptor
Isotype	Mouse IgG2a, κ
Barcode Sequence	CCGTGTTCCCTCATTA
Description	CD71 is a 95 kD type II homodimeric transmembrane glycoprotein also known as T9 and transferrin receptor. It is expressed on proliferating cells, reticulocytes, and erythroid precursors. CD71 plays a role in the control of cellular proliferation by facilitating the uptake of iron via ferrotransferrin binding and the recycling of apotransferrin to the cell surface.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	NALM-6 pre-B cell line
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.
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. TotalSeq™-A antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution 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. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</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 barcode flanking sequences are CCTTGGCACCCGAGAATTCCA (PCR handle), and BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*A*A (capture sequence). B represents either C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.</p>

View more applications data for this product in our [Scientific Poster Library](#).

Application References

1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.

(PubMed link indicates BioLegend citation)

Product Citations

1. Swanson E, *et al.* 2021. eLife. 10:00. [PubMed](#)

RRID

AB_2800884 (BioLegend Cat. No. 334123)

Antigen Details

Structure Transferrin receptor family, type II glycoprotein, 95 kD

Distribution Proliferating cells, reticulocytes, erythroid precursors

Function Mediates uptake of iron

Ligand/Receptor Transferrin

Biology Area Immunology

Molecular Family CD Molecules

Antigen References 1. Hentze M, *et al.* 1996. *P. Natl. Acad. Sci. USA* 93:8175.
2. Trowbridge I, *et al.* 1993. *Annu. Rev. Cell Biol.* 9:129.

Gene ID [7037](#)

Related Protocols

[TotalSeq™-A Antibodies and Cell Hashing with 10x Single Cell 3' Reagent Kit v3 3.1 Protocol](#)

Other Formats

Purified anti-human CD71, FITC anti-human CD71, PE anti-human CD71, APC anti-human CD71, APC/Cyanine7 anti-human CD71, PE/Cyanine7 anti-human CD71, PerCP/Cyanine5.5 anti-human CD71, Alexa Fluor® 647 anti-human CD71, Brilliant Violet 650™ anti-human CD71, Brilliant Violet 421™ anti-human CD71, PE/Dazzle™ 594 anti-human CD71, TotalSeq™-A0394 anti-human CD71, TotalSeq™-C0394 anti-human CD71, TotalSeq™-B0394 anti-human CD71, Alexa Fluor® 700 anti-human CD71 Antibody, TotalSeq™-D0394 anti-human CD71

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587