

TotalSeq™-D0138 anti-human CD5 Antibody

Catalog# / Size	300647 / 10 µg
Clone	UCHT2
Regulatory Status	RUO
Workshop	III 518
Other Names	Leu-1, Ly-1, T1, Tp67
Isotype	Mouse IgG1, κ
Barcode Sequence	CATTAACGGGATGCC
Description	CD5 is a 67 kD single chain type I glycoprotein also known as Leu-1, Ly-1 and T1. It is a member of the scavenger receptor superfamily found on T cells, thymocytes, B cell subsets, chronic B lymphocytic leukemia (B-CLL), and peripheral blood dendritic cells. CD5 modulates T and B cell receptor signaling, thymocyte maturation, and T-B cell interactions upon binding to ligands such as CD72.

Product Details

Verified Reactivity	Human
Reported Reactivity	Chimpanzee, Capuchin Monkey, Common Marmoset, 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™-D 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™-D antibodies are compatible with Mission Bio's Tapestry Single-Cell Sequencing Platform for simultaneous detection of DNA and Protein.</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>
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting ² and immunohistochemical staining of acetone-fixed frozen sections ^{2,5} .
Additional Product Notes	TotalSeq™-D reagents are designed to profile protein expression at single cell level. The Mission Bio Tapestry platform and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq/single-cell-dna

The barcode flanking sequences are CGAGATGACTACGCTACTCATGG (PCR handle), and GAGCCGATCTAGTATCTCAGT*C*G (capture sequence). * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Application Technical Notes](#).

Application References

(PubMed link indicates BioLegend citation)

1. Knapp W, *et al.* 1989. Leucocyte Typing IV Oxford University Press. New York.
2. Renaudineau Y, *et al.* 2005. *Blood* 106:2781. (WB IHC)
3. Porter JC and Hogg N. 1997. *J. Cell Biol.* 138:1437.
4. Saliba AE, *et al.* 2010. *P. Natl. Acad. Sci. USA* 107:14524. [PubMed](#)
5. Kap Y, *et al.* 2009. *J. Histochem. Cytochem.* 57:1159. (IHC)

RRID AB_2892344 (BioLegend Cat. No. 300647)

Antigen Details

Structure	Scavenger receptor superfamily, 67 kD
Distribution	T cells, thymocytes, B cell subset, B cell CLL, peripheral blood dendritic cells
Function	Modulates TCR, BCR signaling, thymocyte maturation, T-B cell interaction
Ligand/Receptor	CD72
Cell Type	B cells, Dendritic cells, Leukemia, T cells, Thymocytes
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none">1. Kipps T. 1988. <i>Adv. Immunol.</i> 47:117.2. Resnick D, <i>et al.</i> 1993. <i>Trends Biochem. Sci.</i> 19:5.3. Wood GS, <i>et al.</i> 1992. <i>Am. J. Pathol.</i> 14:789.
Gene ID	921

Related Protocols

[TotalSeq™-D with Mission Bio Tapestri® Single-Cell DNA + Protein Protocol](#)

Other Formats

APC anti-human CD5, Biotin anti-human CD5, FITC anti-human CD5, PE anti-human CD5, Purified anti-human CD5, Alexa Fluor® 647 anti-human CD5, PerCP anti-human CD5, PerCP/Cyanine5.5 anti-human CD5, PE/Cyanine7 anti-human CD5, Pacific Blue™ anti-human CD5, Brilliant Violet 421™ anti-human CD5, Purified anti-human CD5 (Maxpar® Ready), APC/Cyanine7 anti-human CD5, Alexa Fluor® 700 anti-human CD5, PE/Dazzle™ 594 anti-human CD5, TotalSeq™-A0138 anti-human CD5, TotalSeq™-C0138 anti-human CD5, APC/Fire™ 750 anti-human CD5, Brilliant Violet 711™ anti-human CD5, TotalSeq™-B0138 anti-human CD5 Antibody, TotalSeq™-D0138 anti-human CD5

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