

TotalSeq™-C Human Universal Cocktail, V1.0

Catalog# / Size	399905 / 5 tests
Regulatory Status	RUO
Description	The TotalSeq™-C Human Universal Cocktail has been designed to react with 130 unique cell surface antigens, including principal lineage antigens, and includes 7 isotype control antibodies, to aid in the multiomic characterization of immune cells.

The lyophilized cocktail provides convenience when processing several samples at the same time or at different time points, reducing inconsistencies associated with pipetting and handling multiplex vials and samples. The antibodies in the cocktail are provided at optimized concentrations to provide a ready-to-use solution once the cocktail has been reconstituted. The TotalSeq™-C Human Universal Cocktail V1.0 comes packaged in convenient single-use vials and is compatible with both V1 and V2 of 10x Genomics Single Cell Immune Profiling kits.

Product Details

Verified Reactivity	Human
Formulation	Lyophilized from PBS containing stabilizers. Please reconstitute each tube with cell staining buffer as indicated in the application notes when ready to use. Make sure the cake is completely dissolved prior to using the cocktail for staining cells. The lyophilized cocktail material can vary in appearance and appear as either a lyophilized cake or a powder.
Preparation	This reagent is a combination of TotalSeq™-C oligo conjugated clones at optimal concentrations for single-cell sequencing analysis. See additional product notes for a list of clones.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The lyophilized antibody cocktail should be stored between 2°C and 8°C in powder form and in a sealed container with desiccant until ready to use. Once vial is opened, it is to be reconstituted immediately. After reconstitution cocktail should be used within 2 hours.
Application	PG - Quality tested
Recommended Usage	This panel has been optimized on human PBMCs. Using lysed whole blood or additional TotalSeq™ antibodies may require further optimization. Use one reconstituted vial per test. Please contact our technical service group for further information. 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.
Application Notes	Click here for protocol Download the complete dataset for all 137 targets
Additional Product Notes	TotalSeq™ reagents are designed to profile protein expression 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 . The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation. The full oligomer sequence for this product, with the specific barcode in brackets is CGGAGATGTGTATAAGAGACAGNNNNNNNNNN [Barcode] NNNNNNNNCCCATATAAGA*A*A.



Download the excel file for a full list of clones and barcodes.



Download the Cell Ranger antibody reference and UMI counting csv file.

RRID AB_2876728 (BioLegend Cat. No. 399905)

Antigen Details

Distribution Multiple cell types and cell states

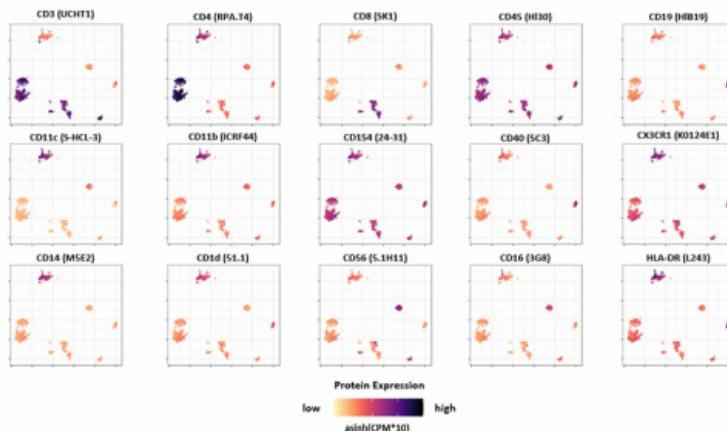
Gene ID NA

Related Protocols

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

[TotalSeq™ Universal Cocktail Reconstitution and Staining Instructions Protocol](#)

Product Data



Major immune cell lineages and selected cell states are identified using the TotalSeq™-C Human Universal Cocktail. Human peripheral blood mononuclear cells stimulated with PMA + ionomycin, PHA, and interferon gamma + TNF alpha were stained with the TotalSeq™-C Human Universal Cocktail and processed using the 10x Genomics Single Cell 5' v1.1 feature barcoding kit and Illumina sequencing. Protein count data were transformed and visualized in a UMAP projection overlaid with protein expression levels for each component of the cocktail. Cell clusters were identified based on protein expression only.

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