

TotalSeq™-A0870 anti-human CD150 (SLAM) Antibody

Catalog# / Size	306313 / 10 µg
Clone	A12 (7D4)
Regulatory Status	RUO
Other Names	SLAM, Signaling Lymphocyte Activation Molecule, IPO-3
Isotype	Mouse IgG1, κ
Barcode Sequence	GTCATTGTATGTCTG
Description	CD150 is a 70-95 kD type I transmembrane glycoprotein also known as SLAM or IPO-3. It is a member of the Ig superfamily. It is expressed on a subset of T cells, B cells, dendritic cells, and endothelial cells. The expression of CD150 is upregulated upon activation. CD150 binds to itself as the ligand to be involved in B cell costimulation, proliferation, immunoglobulin production, and signal transduction.

Product Details

Verified Reactivity	Human, Cynomolgus, Rhesus
Reported Reactivity	African Green, Baboon
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Activated human PBMC
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>
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, immunoprecipitation ⁴ , and costimulation ^{1,5} of IFN-gamma production and T cell proliferation. The Ultra-LEAF™ purified antibody (Endotoxin <0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 306317 and 306318).
Additional Product Notes	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.

The barcode flanking sequences are CCTTGGCACCCGAGAATTCCA (PCR handle), and BAAA*A*A (capture sequence). B represents either C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

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

Application References

(PubMed link indicates BioLegend citation)

1. Garcia V, *et al.* 2001. *J. Immunol.* 167:5719. (Costim)
2. Vincent S, *et al.* 2002. *J. Virol.* 76:6121.
3. Cocks B, *et al.* 1995. *Nature* 376:260.
4. Sayos J, *et al.* 2001. *Blood* 97:3867. (IP)
5. Aversa G, *et al.* 1997. *J. Immunol.* 158:4036. (Costim)
6. Spencer M, *et al.* 2010. *Am. J. Physiol Endocrinol Metab.* 299:1016. [PubMed](#)

Product Citations

1. Guilliams M, *et al.* 2022. *Cell.* 185:379. [PubMed](#)

RRID

AB_2814146 (BioLegend Cat. No. 306313)

Antigen Details

Structure	Ig superfamily, type I transmembrane glycoprotein, 70-95 kD
Distribution	T subset (upregulated after activation), B cells, dendritic cells, endothelial cells
Function	B cell costimulation, proliferation and Ig production
Ligand/Receptor	CD150 (self ligand)
Cell Type	B cells, Dendritic cells, Endothelial cells, T cells, Tregs
Biology Area	Costimulatory Molecules, Immunology, Innate Immunity
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none">1. Cocks B, <i>et al.</i> 1995. <i>Nature</i> 376:260.2. Pinchouk V, <i>et al.</i> 1988. <i>AntiCancer Res.</i> 8:1377.3. Polacino P, <i>et al.</i> 1996. <i>J. Med. Primatol.</i> 25:201.4. Punnonen J, <i>et al.</i> 1997. <i>J. Exp. Med.</i> 185:993.
Gene ID	6504

Related Protocols

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

Other Formats

FITC anti-human CD150 (SLAM), PE anti-human CD150 (SLAM), Purified anti-human CD150 (SLAM), Alexa Fluor® 488 anti-human CD150 (SLAM), TotalSeq™-A0870 anti-human CD150 (SLAM), TotalSeq™-C0870 anti-human CD150 (SLAM), Ultra-LEAF™ Purified anti-human CD150 (SLAM), TotalSeq™-B0870 anti-human CD150 (SLAM) Antibody

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