

## TotalSeq™-A0382 anti-human CD177 Antibody

<b>Catalog# / Size</b>	315811 / 10 µg
<b>Clone</b>	MEM-166
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	HCDM listed
<b>Other Names</b>	Neutrophil specific antigen 1, NB1, polycythemia rubra vera 1
<b>Isotype</b>	Mouse IgG1, κ
<b>Barcode Sequence</b>	AGTATGGAGCCATAT
<b>Description</b>	CD177 is also known as neutrophil specific antigen 1, NB1, and polycythemia rubra vera 1. It is a member of the uPAR family and is a GPI-linked cell surface glycoprotein with a molecular weight of 60 kD. CD177 is expressed on granulocytes and bone marrow progenitors (early erythroblasts, megakaryocytes). It is thought to be involved in allogeneic and autoimmune responses to neutrophils.

### Product Details

<b>Verified Reactivity</b>	Human, Cynomolgus, Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human granulocytes
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA.
<b>Preparation</b>	The antibody was purified by chromatography and conjugated with TotalSeq™-A oligomer under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">PG - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> and the oligomer sequence is confirmed by sequencing. TotalSeq™-A antibodies are compatible with 10x Genomics Single Cell Gene Expression <a href="#">Solutions</a>.</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>
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting <sup>5</sup> , and immunofluorescence <sup>4</sup> .
<b>Additional Product Notes</b>	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. <a href="#">10x Genomics Chromium System and Reagents</a> ) and sequencer (e.g. Illumina analyzers) are required. Please contact <a href="#">technical support</a> for more information, or visit <a href="http://biolegend.com/totalseq">biolegend.com/totalseq</a> .

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. Leucocyte Typing VII. Mason D, *et al.* Eds, 2002 Oxford University Press.
2. von Vietinghoff S, *et al.* 2007. *Blood* 109:4487. [PubMed](#)
3. Korkmaz B, *et al.* 2008. *J. Biol. Chem.* 283:35976. [PubMed](#)
4. von Vietinghoff S, *et al.* 2007. *Blood* 109:4487. (IF)
5. Jankowska AM, *et al.* 2011. *Haematologica.* 96:954. (WB)

#### Product Citations

1. Witkowski MT, *et al.* 2020. *Cancer Cell.* 37:867. [PubMed](#)
2. Hao Y, *et al.* 2021. *Cell.* 184:3573. [PubMed](#)

#### RRID

AB\_2750554 (BioLegend Cat. No. 315811)

## Antigen Details

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<b>Structure</b>	uPAR family, GPI-linked cell surface glycoprotein, 60 kD
<b>Distribution</b>	Granulocytes, bone marrow progenitors (early erythroblasts, megakaryocytes)
<b>Function</b>	Antigen involved in neutrophil allo- and autoimmunity, function unknown
<b>Modification</b>	Glycosylated
<b>Cell Type</b>	Granulocytes, Hematopoietic stem and progenitors, Neutrophils
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Leukocyte Typing VII. Mason D, <i>et al.</i> (Eds.) Oxford University Press (2002)</li><li>2. Kissel K, <i>et al.</i> 2001. <i>Eur. J. Immunol.</i> 31:1301.</li><li>3. Lalezari P, <i>et al.</i> 1971. <i>J. Clin. Invest.</i> 50:1108.</li><li>4. Temerinac S, <i>et al.</i> 2000. <i>Blood</i> 95:2569.</li></ol>
<b>Gene ID</b>	<a href="#">57126</a>

## Related Protocols

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

## Other Formats

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Purified anti-human CD177, FITC anti-human CD177, PE anti-human CD177, APC anti-human CD177, APC/Cyanine7 anti-human CD177, TotalSeq™-A0382 anti-human CD177

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