

## CAR Dextramer® Staining Protocol

<b>Products</b>	CAR Dextramer®, CD19, human / PE, Cat. No. CT001 PE 50 CAR Dextramer®, BCMA, human / PE, Cat. No. CT003 PE 50 CAR Dextramer®, MSLN, human / PE, Cat. No. CT006 PE 50
<b>Recommended use</b>	CAR Dextramer® is recommended for use in flow cytometry for detection and monitoring of CAR cells.
<b>Materials Required (not provided)</b>	4 mL Falcon disposable 12 x 75-mm test tubes or equivalent Stain and Wash buffer: PBS, 1-5% FCS, pH 7.4 Antibodies identifying relevant cell-surface markers and live-dead dye <sup>A</sup> .  See the FAQ on <a href="http://immudex.com">immudex.com</a> regarding <a href="#">recommended antibody clones</a> . The optimal choice of fluorochromes depends on the flow cytometer and experimental setup.
<b>Procedure</b>	<ol style="list-style-type: none"> <li>1. Prepare your PBMCs or CAR cells<sup>B</sup> by washing twice in 10 mL Stain and Wash buffer.</li> <li>2. Resuspend 1-3 x 10<sup>6</sup> PBMCs or 1-2 x 10<sup>5</sup> transduced CAR cells in 50 µL Stain and Wash buffer</li> <li>3. Centrifuge the CAR Dextramer® at 10.000 x g for 1 min. to avoid transferring any potential precipitate.</li> <li>4. Add 10 µL of CAR Dextramer® reagent to the cell sample and vortex briefly<sup>C</sup>.</li> <li>5. Incubate in the dark at room temperature for 10 min. incubation.</li> <li>6. Add relevant antibodies in the volume/concentration according to manufacturer's instructions<sup>D</sup>.</li> <li>7. Incubate at room temperature in the dark for 20 min.</li> <li>8. Wash cells by adding 2 mL stain and wash buffer. Centrifuge at 300 x g for 5 min. and remove the supernatant. Repeat washing for a total of 2 washes<sup>E</sup>.</li> <li>9. Resuspend the pellet to the desired volume of stain and wash buffer suitable for your flow cytometer.</li> <li>10. Proceed to analyze the samples on a flow cytometer or store at 2-8°C in the dark. For optimal results, do not store the samples longer than 2 hours before acquisition.</li> </ol>
<b>Procedural notes</b>	<ol style="list-style-type: none"> <li>A. Live-dead staining can be performed at the beginning or end of staining procedure according to manufacturer's instructions.</li> <li>B. Dextramer® staining can be performed on any non-fixed cell suspension, including cell lines, PBMCs, or whole blood. When using red blood cell (RBC) lysis reagents that contain fixative, Dextramer® staining must be performed before RBC lysis.</li> <li>C. Always keep Dextramer® reagents stored at 2-8°C in the dark – the plastic vial only partially protects the reagents against light.</li> <li>D. Staining with antibodies may have a negative impact on simultaneous or subsequent staining with Dextramer®. In most cases it is therefore highly recommended to stain with Dextramer® before staining with</li> </ol>

antibodies. Simultaneous staining will reduce the Dextramer<sup>®</sup> staining intensity significantly.

- E. Staining can be performed using 96-well microtiter plates. In that case, after antibody incubation make 4 sequential washes using 200  $\mu$ L stain and wash buffer per well. Centrifuge at 300 x g for 5 min. between each wash and remove supernatant.

**Technical support**

For additional Tips & Tricks, FAQs and protocols, please visit <https://www.immudex.com/resources/> or contact our support team at [customer@immudex.com](mailto:customer@immudex.com)  
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