

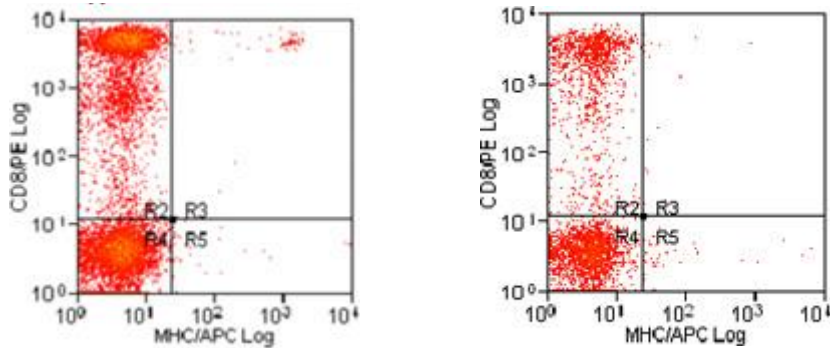
# Whole Blood Staining Procedure for MHC Dextramers

Human peripheral whole blood can be stained with MHC Dextramers simultaneously with immuno-phenotyping of relevant antigens. The staining procedure describes the use of CD8 antibody together with MHC Dextramers. Additional antibodies for detection of extracellular antigens can be added. For detection of intracellular antigens simultaneously with MHC detection, please refer to the staining protocol, Intracellular staining in combination with MHC Dextramer™ staining.

1. Transfer 100 µL whole blood to a 12 x 75 mm polystyrene test tube.
2. Add 10 µl of MHC Dextramer™ and mix with a vortex mixer. Incubate in the dark at room temperature for 10 minutes.
3. Add an optimally titrated amount of anti-CD8 antibody (e.g. Dako clone DK25) conjugated with relevant fluorochromes and mix well. Continue incubation at 2-8 °C in the dark for 20 minutes.
4. Add 2 mL EasyLyse™ working solution (Dako code S2364) and incubate for 10 minutes.
5. Add 2 mL 0.01 mol/L PBS and centrifuge for 5 minutes at 300 x g and aspirate supernatant.
6. Re-suspend pellet in an appropriate fluid for flow cytometry, e.g. 0.4 mL PBS, and analyze on a flow cytometer or store at 2-8 °C in the dark until analysis. Do not store longer than 2 hours before analysis.

## Example

### Staining Human Peripheral Whole Blood with MHC Dextramers



**Figure A.** Donor positive for CMV. **Figure B.** Donor negative for CMV.

Human peripheral whole blood stained with MHC Dextramers.

To screen donors for CMV specificity, a mixture of eight different APC fluorochrome-labeled, CMV-specific MHC Dextramers, together with CD8/RPE (clone DK25, Dako Code R0806), were applied. Samples were stained according to the whole blood staining procedure using EasyLyse™ (Dako Code S2364) as erythrocyte-lysing reagent.

### Products and support

If you need information concerning Immudex products, have a technical enquiry, or are interested in customer-defined Dextramers and/or collaboration with Immudex, please contact us on E-mail [customer@immudex.com](mailto:customer@immudex.com), or phone +45 20 437 665

If you need ordering information, please contact us on E-mail [ordering@immudex.com](mailto:ordering@immudex.com), or phone +45 29 134 224