Countstar® Rigel
Fast and Precise PBMC Analysis

In times of COVID-19 the analysis of peripheral blood mononuclear cells (PBMCs) and their CD-marker patterns are indispensable measurements that deliver important data to better understand the progression of an infection by SARS-CoV-2 in humans.

Normally a PBMC analysis of whole blood samples is a time-consuming process. The Countstar® Rigel shortens this analysis time significantly by using the AO/PI staining method. The instrument's software reduces error-prone counting and steps in further analysis (diameter/aggregation rate).

The Countstar® Rigel delivers precise and comparable results in addition to high-resolution images of CD4+ cells faster than the traditional flow cytometry approach. Beyond that, Countstar® Rigel analysers have already proven their precision and reproducibility in many cGMP regulated manufacturing processes for vaccines and active pharmaceutical ingredients (APIs) globally.

Ask your regional sales partner or contact us directly to schedule a demo or evaluation of the Countstar® Rigel models. Our applications specialists are ready to assist you in introduction and training.

www.countstar.com

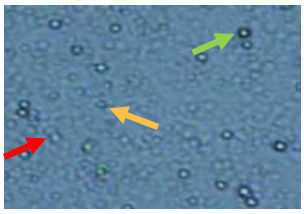

Fig. 1: Bright field image acquired from a whole blood PBMC sample by a Countstar® Rigel S3: contains cellular debris, platelets, and other undefined objects

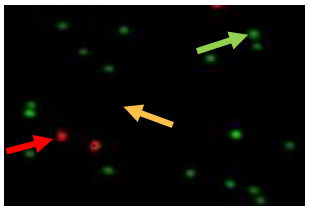

Fig. 2: An overlay image of cells stained by AO/PI: Channel 1 (Ex/Em: 480nm/525nm 535/40nm); Channel 2 (Ex/Em: 580/25nm); Red: dead cell, Green: viable cell, Orange: non-labelled, unspecified object

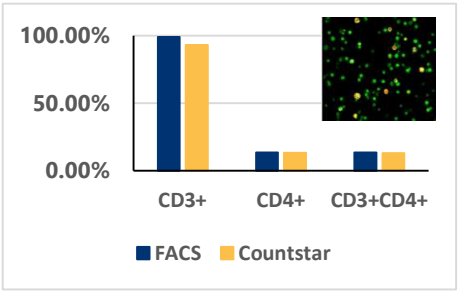

Fig. 3: Comparison of flow cytometry data to Countstar® Rigel S3 produces comparable results in this analysis of CD marker patterns CD3-FITC and CD4-PE labelling of IL-6 stimulated immune cells