

MILLIPLEX(R) Human Cytokine/Chemokine Magnetic Bead Panel IV, Premixed 20 Plex Assay

Art. ID SAF-HCY4MG-64K-PX20
Unit EA

Description

Inflammation and immune cell response are key to maintaining homeostasis. The more we understand mechanisms of disease, the more we discover the role that inflammation plays in the etiology of disease: certainly immunological diseases, such as allergic reactions, asthma, infectious disease and an ever-growing number of conditions under the autoimmune umbrella, but also neurodegenerative disease, metabolic and cardiovascular disease and even cancer. The ability to measure multiple inflammation biomarkers simultaneously using MILLIPLEX(R) MAP panels, based on the Luminex xMAP technology, to establish disease profiles that can be used for screening, diagnosis and response to treatment is critical for understanding the pathogenesis of these diseases. The MILLIPLEX(R) MAP Cytokine/Chemokine Magnetic Bead Panel IV Premix is a 20-plex premixed kit to be used for the simultaneous quantification of all of the following analytes in serum, plasma or culture supernatant samples: BAFF/Blys, BRAC/CSCL14, CCL28, CXCL16, HMGB1, IFNbeta, IL-14, IL-19, IL-24, IL-28B, IL-32alpha, IL-34, IL-35, IL-36beta, IL-37, IL-38, MIP-4/PARC/CCL18, MPIF-1/CL23 and YKL40/CHI3L1. MILLIPLEX(R) MAP offers the broadest selection of analytes across a wide range of disease states and species. Once the analytes of interest have been identified, you can rely on the quality that we build into each kit to produce results you can trust. In addition to the assay characteristics listed in the protocol, other performance criteria evaluated during the validation process include: cross-reactivity, dilution linearity, kit stability, and sample behavior (e.g. detectability and stability). Each panel and kit meets stringent manufacturing criteria to ensure batch-to-batch reproducibility. Each MILLIPLEX(R) MAP panel and kit includes: Quality controls (QCs) provided to qualify assay performance Comparison of standard (calibrator) and QC lots to a reference lot to ensure lot-to-lot consistency Optimized serum matrix to mimic native analyte environment Detection antibody cocktails designed to yield consistent analyte profiles within panel MILLIPLEX(R) MAP Human Cytokine/Chemokine Magnetic Bead Panel IV is part of the most versatile system available for cytokine research. From our single to multiplex biomarker solutions, we partner with you to design, develop, analytically validate and build the most comprehensive library available for protein detection and quantitation.