

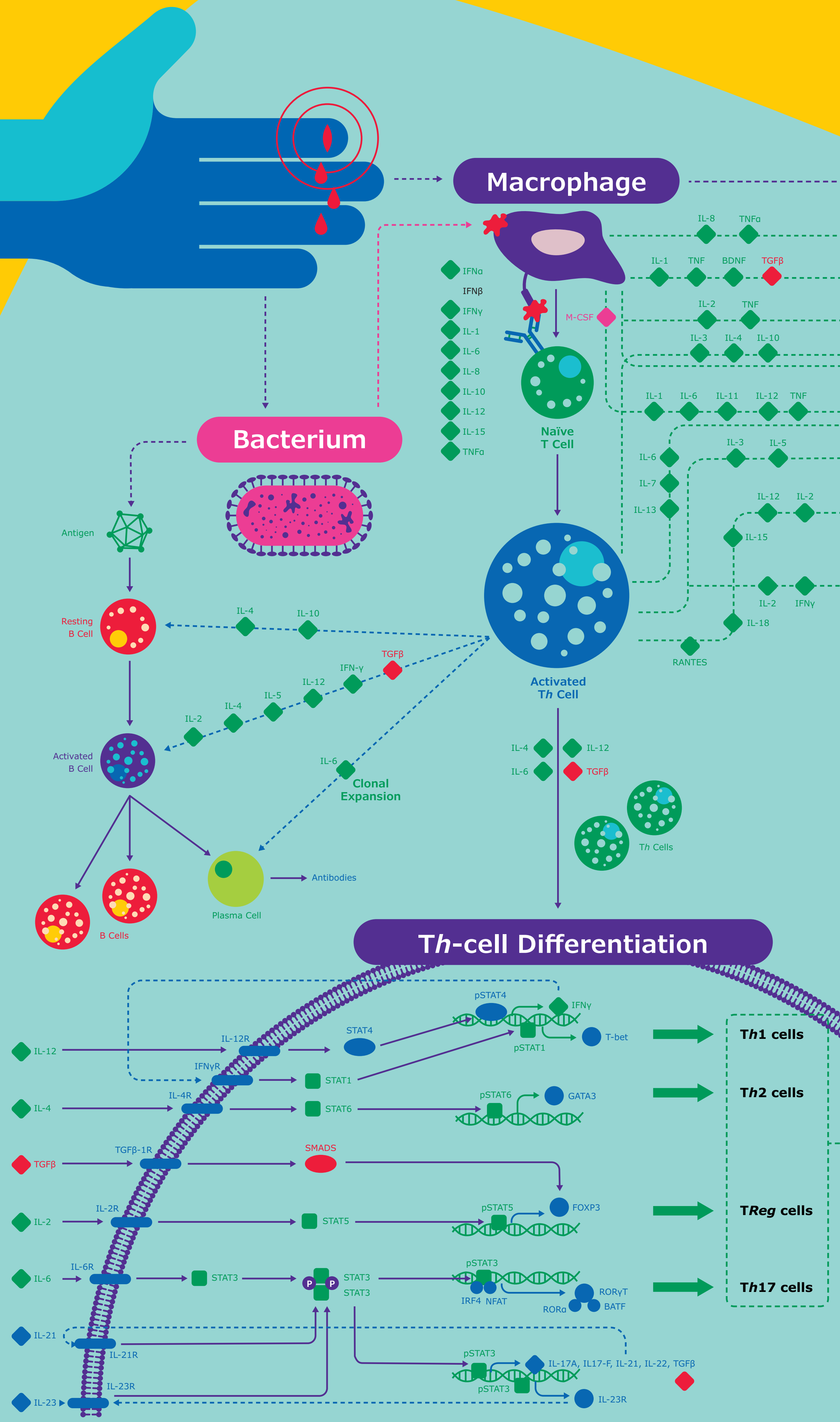
BRING YOUR BIOMARKERS TO LIFE.

Bridge the gap between immunology and cell signaling with MILLIPLEX® MAP multiplex assays

How do intracellular signaling networks regulate the development, maturation and function of immune cells mediating the inflammatory responses that are linked to cardiovascular disease, cancer, neurodegeneration, obesity, diabetes, sepsis and other disease states?

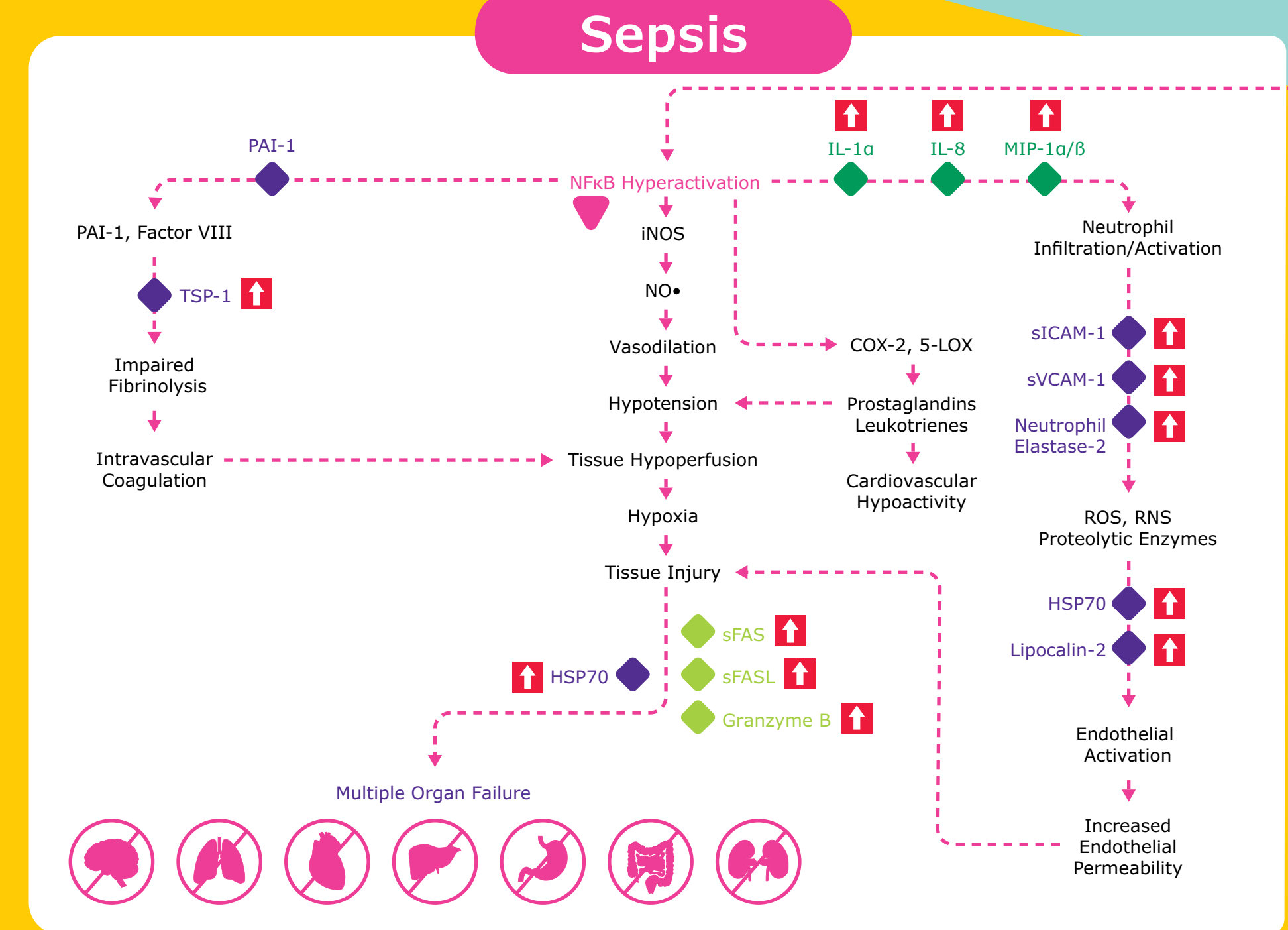
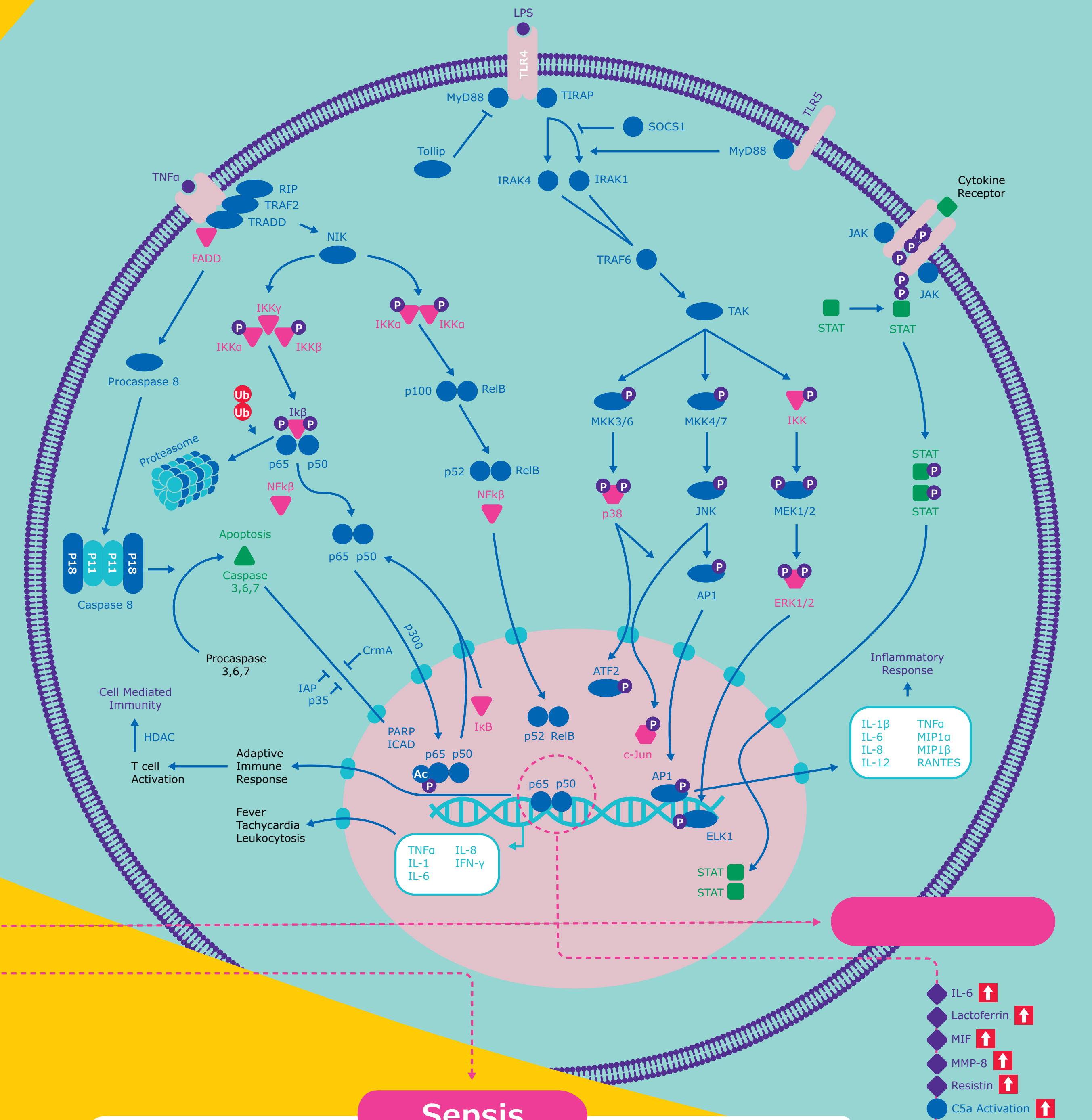
Since no single biomarker can provide conclusive information on the role of inflammation in the initiation and progression of disease states, MilliporeSigma enables you to measure multiple relevant circulating or intracellular biomarkers in a single, small sample, using our extensive list of multiplex assays.

MILLIPORE SIGMA



Neutrophil	Bacterial phagocytosis
Fibroblast	Inflammatory response
Endothelial cells	Inflammatory response
Mast cell	Histamine/Prostaglandins/Leukotrienes
Stem cell	Hematopoiesis
Eosinophils	Attack parasitic worms; mitigate allergy and inflammatory effects
NK cell	Perforin/granzymes/ α -defensins; cell membrane destruction; apoptosis
Tc cell	Perforin/granzymes/granulysin release; cell membrane destruction; apoptosis
Th1 cell	Defense against intracellular bacteria and protozoa; activate macrophages
Th2 cell	Defense against multicellular helminths; activate eosinophils, basophils, mast cells
TReg cell	Suppress activation of the immune system and prevent pathological self-reactivity
Th17 cell	Defense against extracellular bacteria and fungi; activate neutrophils

Macrophage Signaling
↓
Healing



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- ◆ Cytokine: HCYTOMAG-60K, MCYTOMAG-70K, PRCYTOMAG-40K, RECYTMAG-65K, CCYTOMAG-90K, FCYTOMAG-20K, PCYTOMAG-23K
- ◆ Cytokine: HCYP3MAG-63K
- ◆ Th17 cells: HTH17MAG-14K, MTH17MAG-47K
- ◆ CD8+ cells: HCD8MAG-15K, MCD8MAG-48K
- ◆ Sepsis Panels: HSP1MAG-63K, HSP2MAG-63K, HSP3MAG-63K, HSP4MAG-63K, HSP5MAG-63K
- ◆ TGFβ: TGFβMAG-64K-01, TGFβMAG-64K-03
- ◆ STAT Phosphoprotein: 48-610MAG
- ◆ TGFβ Pathway: 48-614MAG
- ◆ NFκB Pathway: 48-630MAG
- ◆ Multi-Pathways: 48-680MAG, MAPK/SAPK: 48-660MAG
- ◆ Early Apoptosis: 48-669MAG
- ◆ Late Apoptosis: 48-670MAG

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