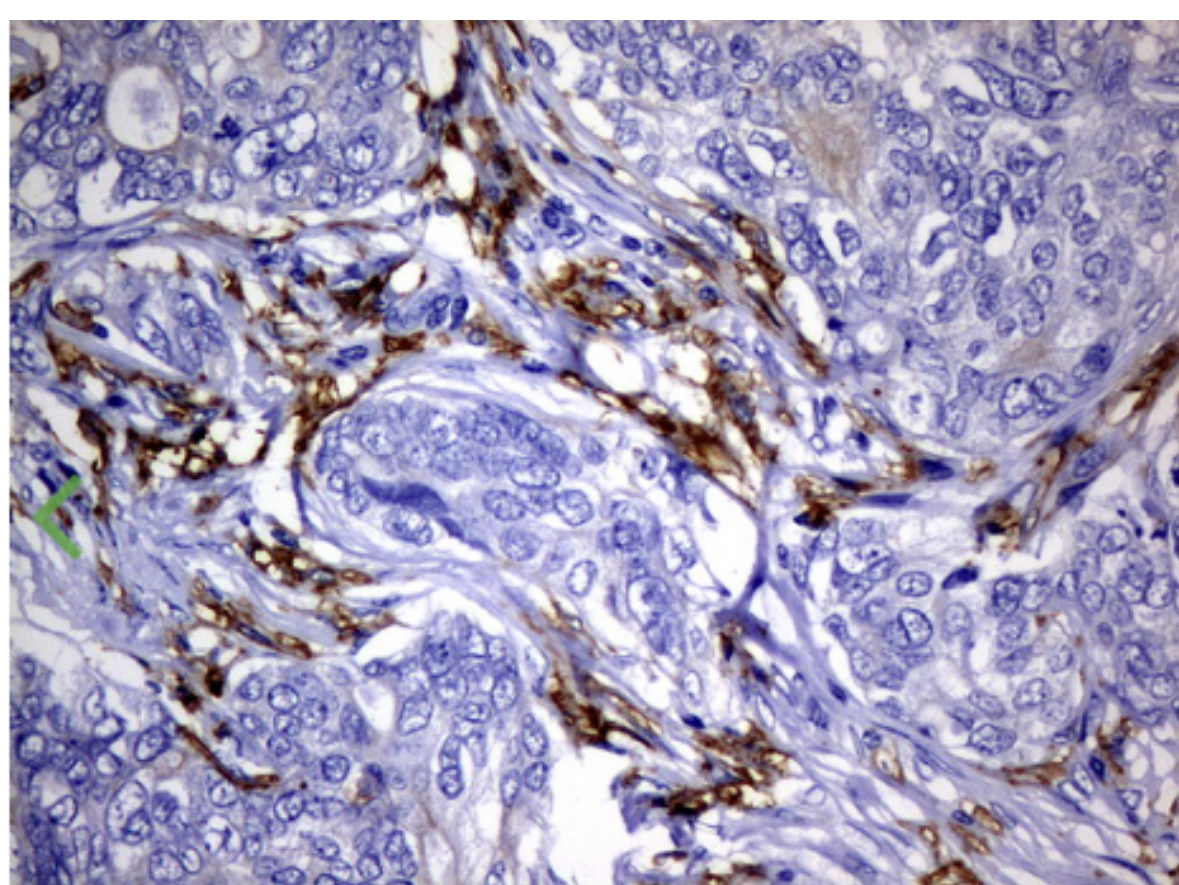


Macrophage Markers

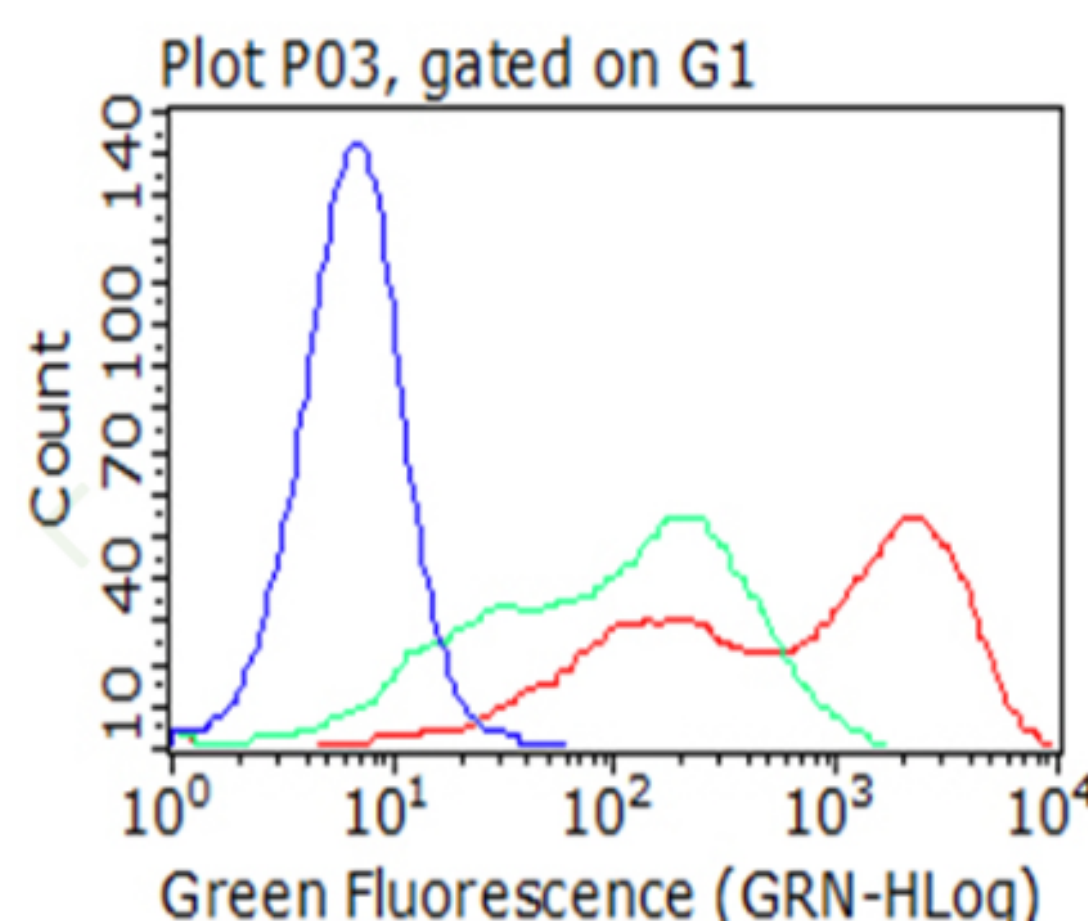
What are macrophages?

Macrophages are phagocytic cells of the immune system that play a pivotal role in the innate immune response. They originate from circulating monocytes, which upon activation by pathogen-associated molecular patterns (PAMPs) or damage-associated molecular patterns (DAMPs) within the microenvironment, undergo a series of morphological and functional changes to transform into mature macrophages. Macrophages are endowed with a remarkable repertoire of effector functions, which enable them to eliminate invading pathogens efficiently. These responses include phagocytosis, antimicrobial peptide secretion, reactive oxygen & nitrogen species production. The responses also include cytokine and chemokine secretion. Notably, macrophages also possess antigen-presenting capabilities and can present antigenic peptides to T cells, thereby initiating the adaptive immune response

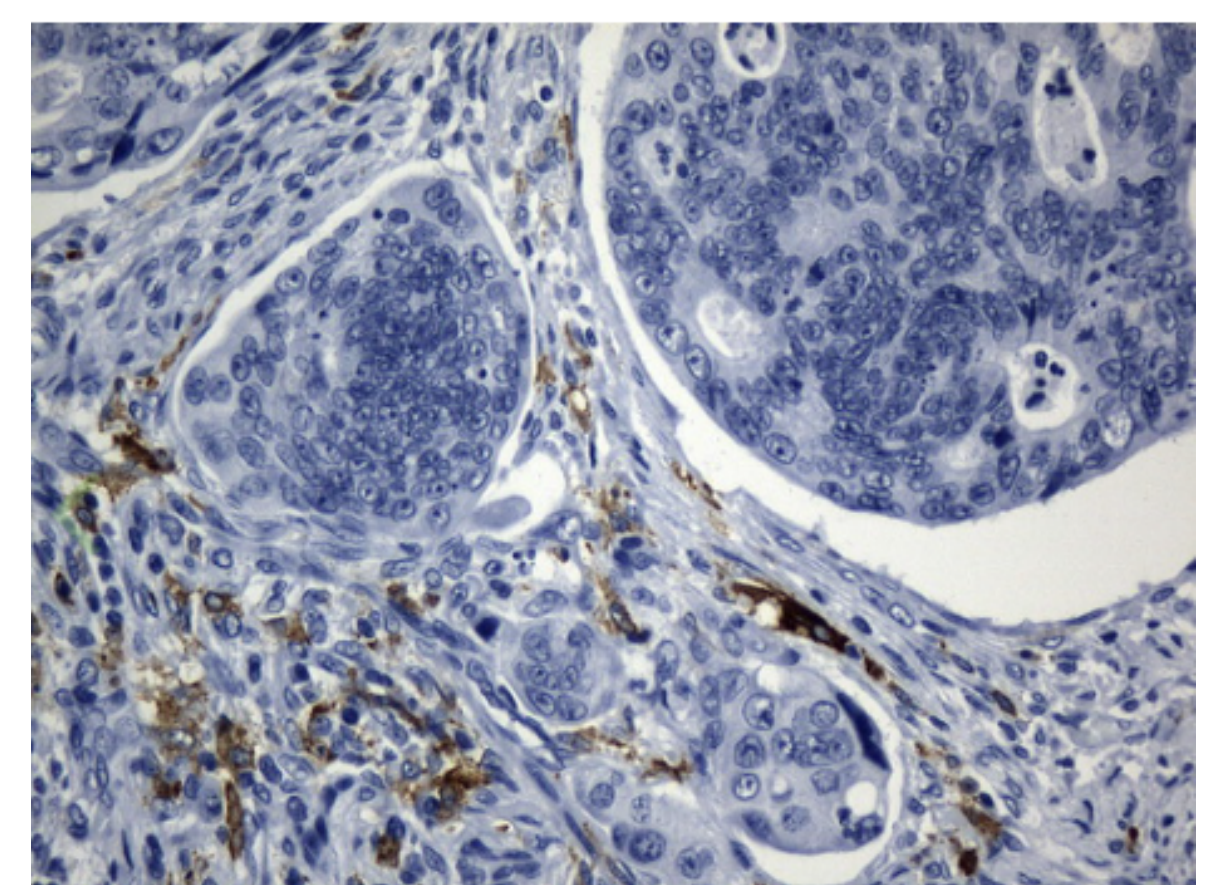
Popular Macrophage Markers



IHC staining of paraffin-embedded adenocarcinoma of human breast tissue using anti-FCGR2A mouse monoclonal antibody



Flow cytometric analysis of living 293T cells transfected with FCGR1A overexpression plasmid (RC207487), Red)/empty vector (PS100001, Blue) using anti-CD64 antibody



IHC staining of paraffin-embedded adenocarcinoma of human colon tissue using anti-MSR1 mouse monoclonal antibody

CD32

Types of Macrophages –(M1 and M2)

Macrophages are a highly diverse cell population that can assume different phenotypes and functions in response to local environmental cues. Here are some of the main types of macrophages:

1. **Classically activated macrophages (M1):**
2. **Alternatively activated macrophages (M2):**

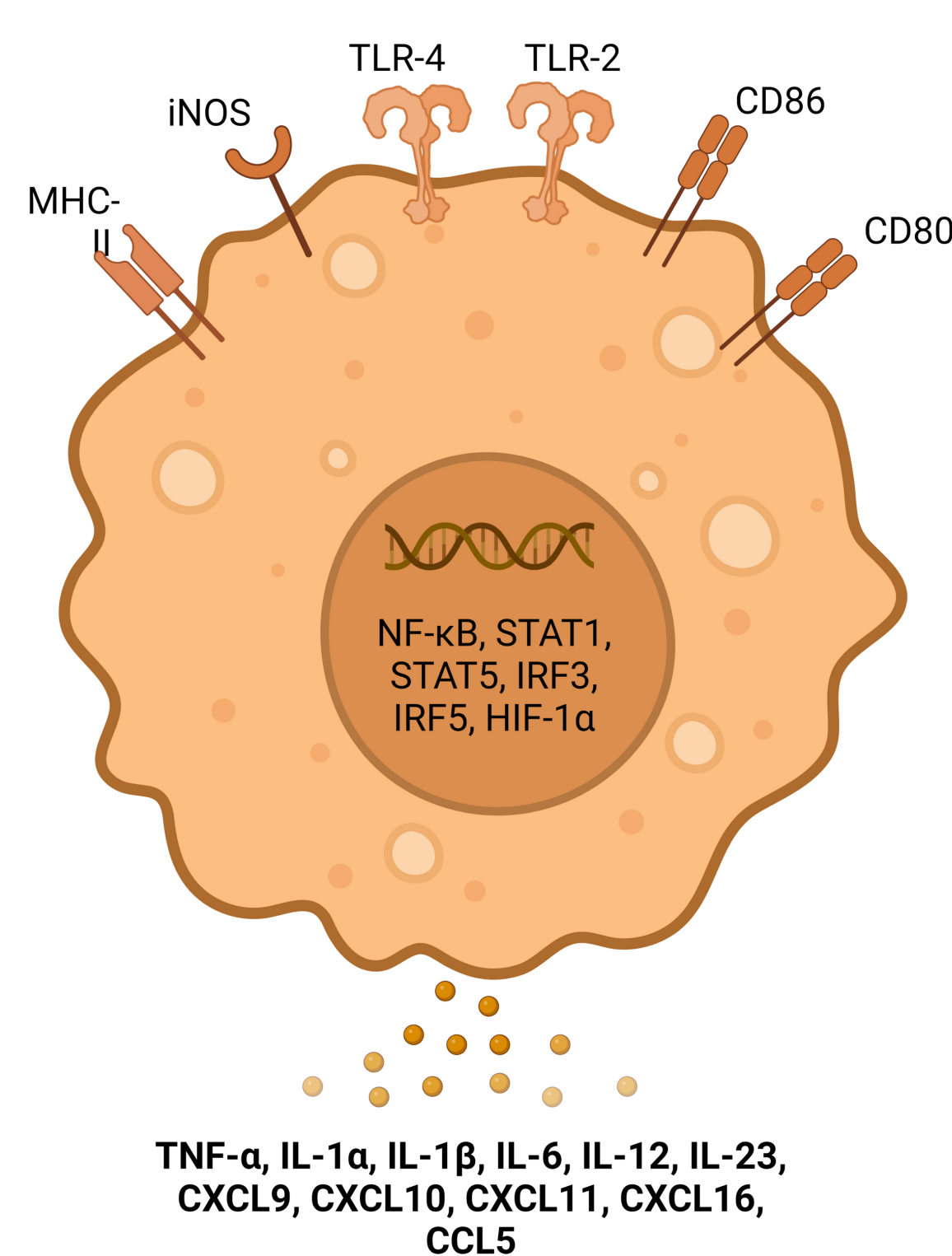
Get more information here



SCAN ME

CD64

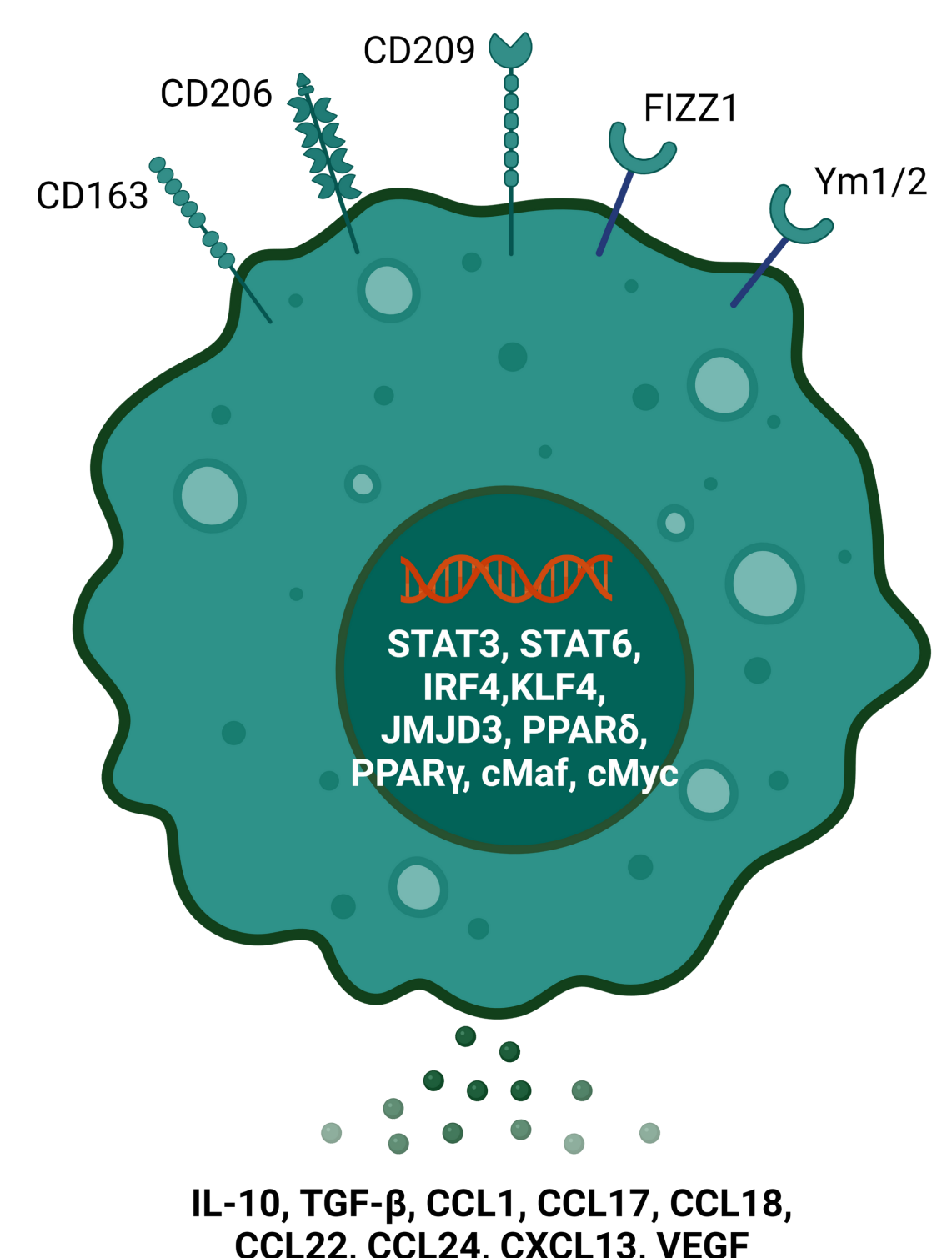
M1 Macrophage



Function:
Proinflammatory activity
Microbial and tumoral activity
Tissue damage

CD204

M2 Macrophage



Function:
Anti-inflammatory activity
Phagocytosis capacity
Tissue regeneration and repair
Angiogenesis and immunomodulation
Tumor formation and progression

Get the antibody sampler panel for M1/M2 Macrophage Markers, contact our team at techsupport@origene.com

Macrophage Markers

Antibodies for M1 and M2 Macrophage Subsets

