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Methods: > Panel Design and Validation of HISTOPROFILE[®] Neuro M1/M2 panel • Targets: GFAP/TMEM119/CD68/c-Maf/CD163 ✓ Microglia: TMEM119⁺ ✓ M2: CD68+/CD163+/c-Maf+/TMEM119 ✓ M1: CD68+/CD163-/c-Maf-/TMEM119-✓ Tumor: GFAP+ > Human Glioblastoma FFPE Blocks were sourced from the Cerba Research Montpellier Biobank • Whole slide images were acquired with the VECTRA[®] Polaris[™] (Akoya Biosciences) slide scanner



HISTOPROFILE®-Neuro M1/M2 on three independent GBM samples .

(lower graph) regions can be appreciated.

In situ multiplex analysis of resident microglia and infiltrating macrophages in glioblastoma

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Background: Glioblastoma mutliforme (GBM) is the most malignant primary brain tumor. Resident microglia and peripheral infiltrating macrophages have been implicated in proliferation, angiogenesis, and immunosuppression in GBM and can influence the efficacy of chemo-, radio-, and immunotherapies. However, certain cancer specific interactions have been associated with either microglia or macrophages, necessitating an approach that can delineate the two populations. Multiplex immunofluorescence offers a technical advantage that allows for the profound phenotyping of cells in the tumor microenvironment as well as their spatial organization.