

FACS Platform

Robust bioanalysis to inform preclinical immunotherapeutic development



CrownBio
CONNECTING SCIENCE TO PATIENTS

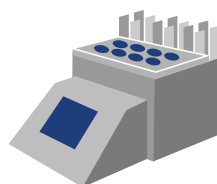
CrownBio's FACS Platform delivers the answers you need to understand functional changes and immunophenotypic patterns induced by tumors, individual specimen variations, and investigational compounds.

Our FACS services are holistically optimized for cancer research. From sample preparation to data delivery, our in house experts ensure that you can make confident conclusions.

CrownBio's FACS Platform Advantages

- **Experience Working with Tumor Samples**
 - Over 20 optimized protocols for tumor tissue dissociation
 - Parent gating strategies to overcome tumor complexity
- **Quality of Data**
 - Central data processing and analysis
 - Use of controls to ensure accurate staining, processing, and gating
- **Throughput Capability**
 - Multicolor flow assays (up to 17 colors)
 - 96-well plate attachment to allow for high-throughput screening (HTS)
- **Expertise**
 - Dedicated team of FACS experts to help determine dissociation protocols, generate panel configurations, suggest gating strategies, etc.
- **Data Reports**
 - Dynamic and informative reporting packages that can include raw data, statistical analyses, observations, recommendations, data visualization, etc.
 - Convenient cloud portal delivery

gentleMACS Dissociators™



- >20 tumor dissociation protocols
- World's largest tumor tissue dissociation center

BD LSRFortessa™



- Multicolor flow assays (up to 17 colors)
- 96-well plate attachment to allow for HTS

Global Data Processing Center



- Consistent statistical analyses from global sites



FACS Platform Quickfact

Our experts routinely provide valuable insights to help guide your FACS assessments, including consulting with you on which markers would be best for your particular project. The following table represents a comprehensive panel designed by our FACS experts to assess tumor infiltrating leukocytes (TILs).

Murine FACS Panel for TIL Analysis

Marker	Immune Cell Population
CD45	Total leukocytes
CD3	Total T cells
CD4	CD4+ T helper cells
CD8	CD8+ cytotoxic T cells
CD44/CD62L	Naïve, memory, and effector T cells
CD69/CD44/OX40/CD25 etc.	Activation markers
CD4+CD25+FoxP3+	Regulatory T cells
CD11b+Ly6c/Ly6g	G-MDSC and M-MDSC
CD11b+ F4/80	Macrophages
IA/IE/CD206	M1 and M2 macrophages
CD3-CD335+	NK cells
CD3+CD335+	NKT cells
CD19	B cells
TNF-a/IFN-r/IL-7/IL-3 etc.	Cytokines
PD-1/PD-L1/CTLA-4/TIM-3 etc.	Checkpoint inhibitors
Granzym B etc.	Commonly requested markers
KI67/Brd U/PNCA etc.	Proliferation
Live/dead (fixable)	Live/dead



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