



SmartBioSurface®

SmartBioSurface® slides

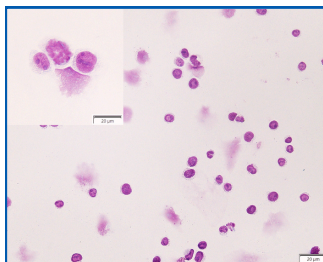
Empower your research:
explore the biology of all your
non-adhering cells on a slide



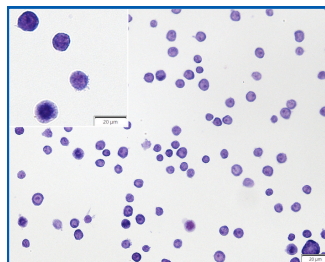
Why should I use them?

- **To replace cytopsin or other adhesion promoting tools**, to obtain a cellular monolayer from *non adherent cells* (primary cells, stem cells) and *body fluids* with poor cellular component, obtaining perfect cellular morphology without cellular loss.

Suspension cells: Cytospin vs SmartBioSurface® slide

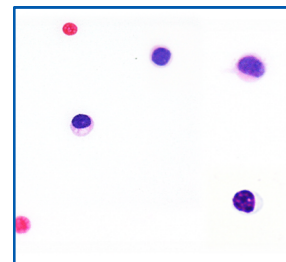


Cytospin

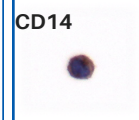
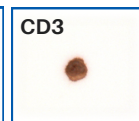


SmartBioSurface® slide

Cerebrospinal fluid



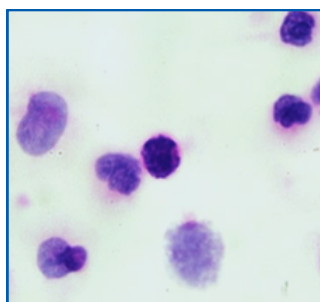
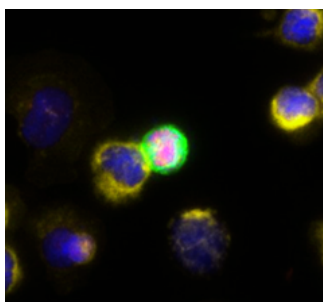
May-Grünwald Giemsa



- **To efficiently identify and characterize both immune and rare cells** from blood samples such as *circulating tumor cells and clusters*.

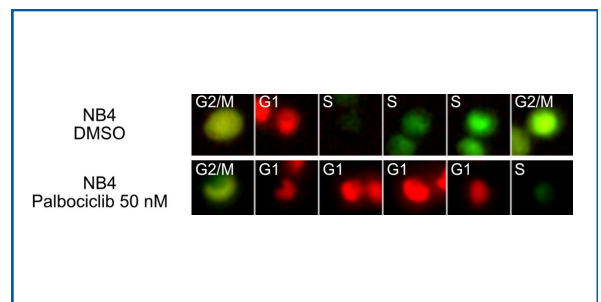
- **To perform live cell imaging** for any cellular assay that may require a biocompatible surface for non-adherent cells.

Heterotypic cluster and immune cells



Immunofluorescence and brightfield

Live cell cycle progression



Perfect cellular sample

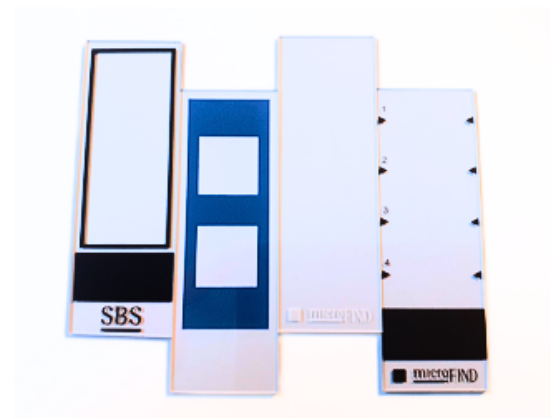
- Up to 99% cell adhesion
- Up to 250.000 live cells per cm²
- Uniform distribution
- Multiple staining rounds
- Ready for single cell microdissection
- Biocompatible
- Transparent, low background

Fast and easy protocol

- Ready-to-use
- Adhesion in < 4 min (dep. on volume)
- No centrifugation
- Compatible with all fixation methods
- Suitable for use @ RT
- 18 months shelf life

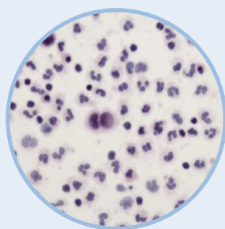
Technology

- **SmartBioSurface® (SBS) slides** consist of a glass slide with **customizable active area** coated with nanostructured titanium.
- The nanocoated area of the slide creates a unique surface that promotes cellular adhesion.
- The slides are manufactured in a controlled clean room environment.

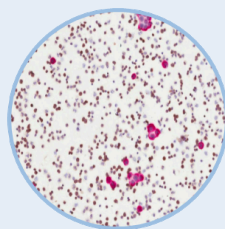


Multiplex *in situ* analysis

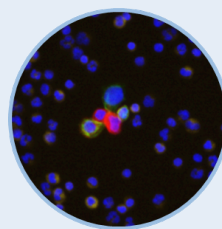
SBS slides are compatible with all current pathology and single-cell based molecular techniques



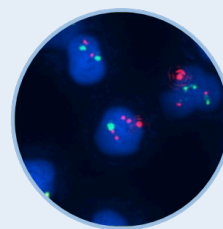
Cytology



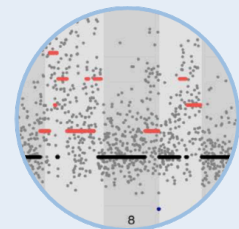
Immuno
cytochemistry



Immuno
fluorescence



FISH



Single cell
molecular analysis

References

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- Carbone, R., et al. (2006). "Biocompatibility of cluster-assembled nanostructured TiO₂ with primary and cancer cells". Biomaterials, 27(17), 3221-3229

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