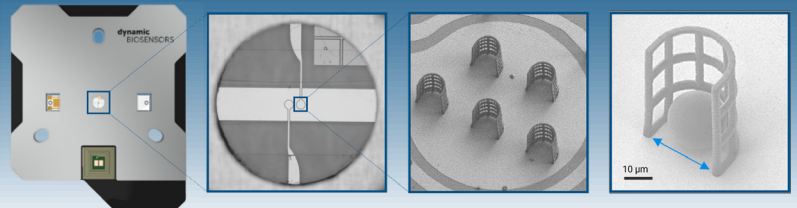


single-cell Interaction Cytometry (scIC)



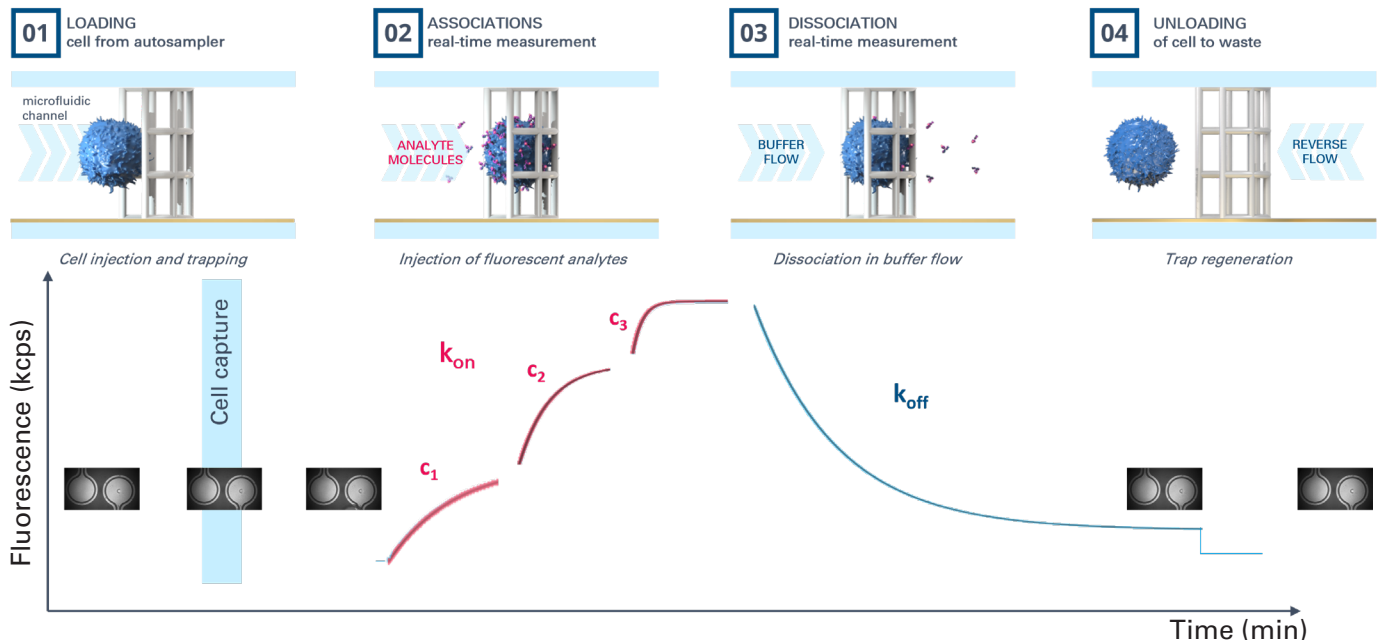
Measure the binding of molecules to membrane targets on cells



helix^{cyto} chips feature flow-permeable, bio-compatible polymer cages, which physically retain any type of cells. Trap sizes are tailored to capture single cells.

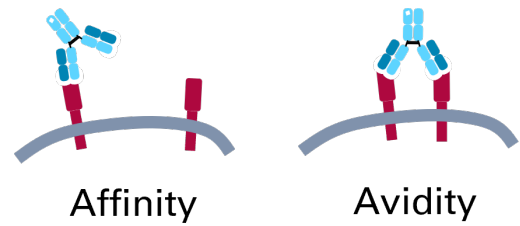
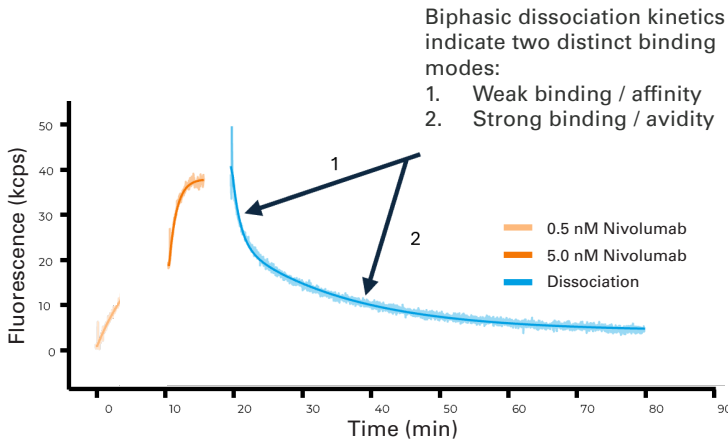
scIC measurement principle

for the automated analysis of k_{on} and k_{off} binding rates on cells



Avidity effects

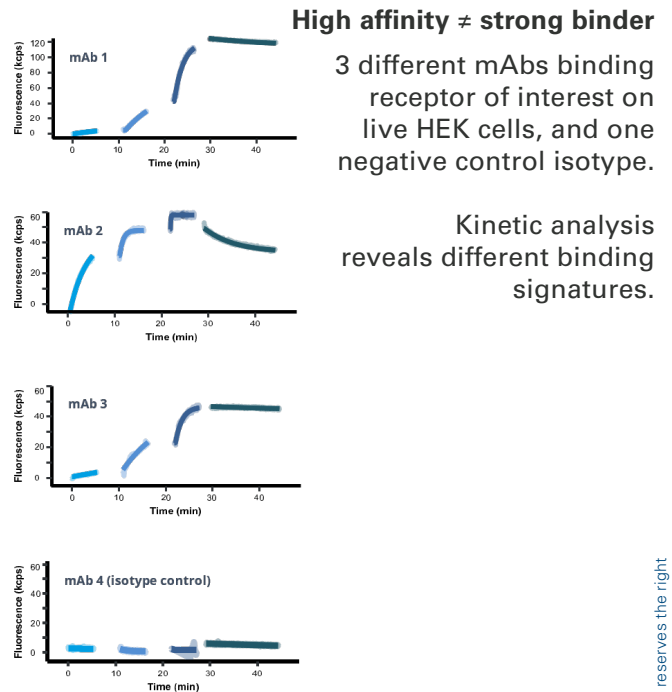
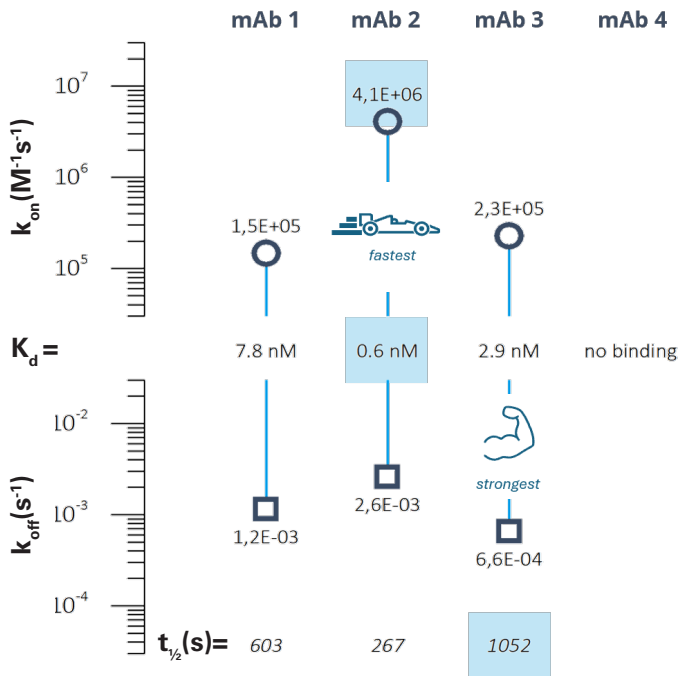
Biphasic dissociations reveal complex binding modes



The *in vivo* efficacy of checkpoint inhibitors is rationalized by scIC-derived binding kinetics: Stable binding of Nivolumab to PD-1 enables T-cell activation.

Biologics development

On-cell characterization of mono- and multispecific antibodies and other biologics



New Targets

Biophysical analysis of so far inaccessible cell surface receptors (GPCRs,...)

