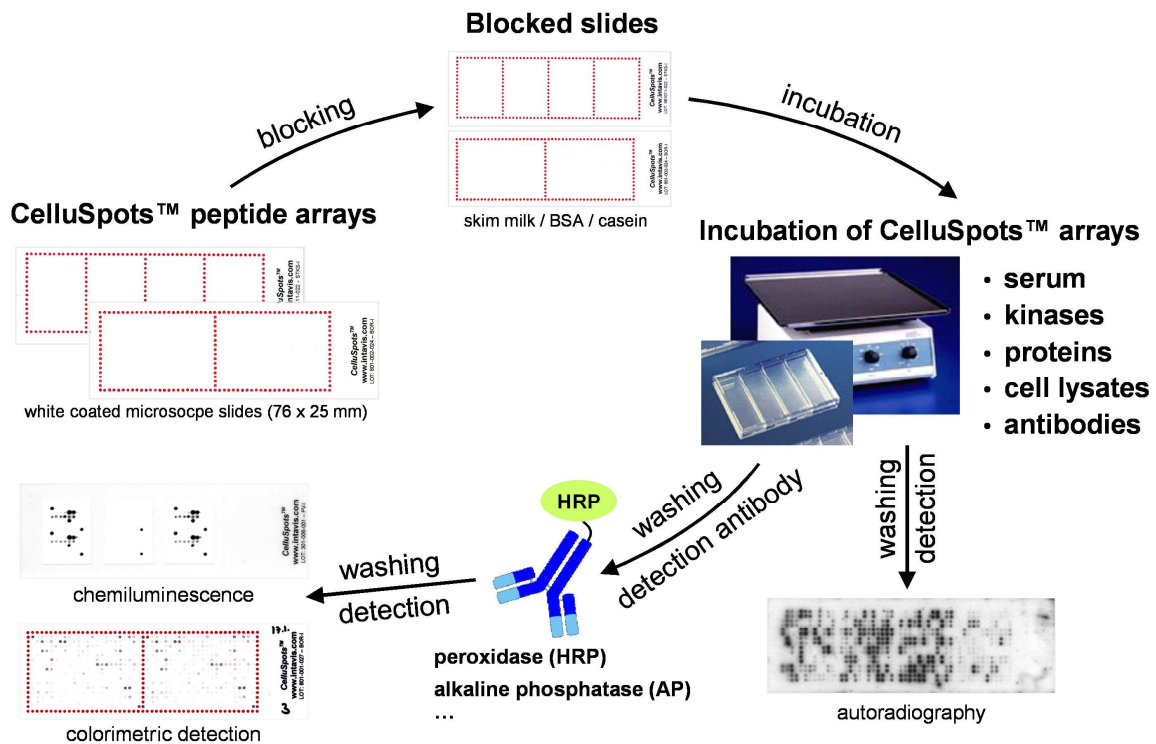


## CelluSpots™ Peptide Arrays

CelluSpots™ are arrays of peptide-cellulose conjugates spotted on planar surfaces such as glass slides. Peptides are synthesized on a modified cellulose support which can be dissolved after synthesis. The solutions of individual peptides covalently linked to macromolecular cellulose are then spotted onto a surface of choice. After evaporation of the solvent a three-dimensional layer is formed which is not dissolved in aqueous reagents used for standard assays.

CelluSpots™ peptide arrays are efficient tools to screen human sera, cell lysates, characterize antibodies, enzyme substrates (e.g. kinases) or sequence specificities of interaction partners with given peptide sequences (e.g. 14-3-3, SH3, PDZ, WW and other domains). A major advantage of this new peptide array format is the ability to screen small volumes of different samples in parallel on many identical CelluSpots™ arrays. Numerous identical copies of the same quality can be prepared, enabling large screening projects.

### CelluSpots™ peptide incubation / detection – schematic procedure:



### Advantages of CelluSpots™ Arrays

- numerous identical copies of identical arrays can be prepared
  - parallel screening projects are possible
  - optimal conditions (concentrations, times, washing) can be tested
- smaller sample volumes are needed for incubation
- high peptide density allows detection of low affinity interactions
- detection by chemiluminescence, autoradiography or enzymatic color development
- additional sets of arrays can be re-ordered