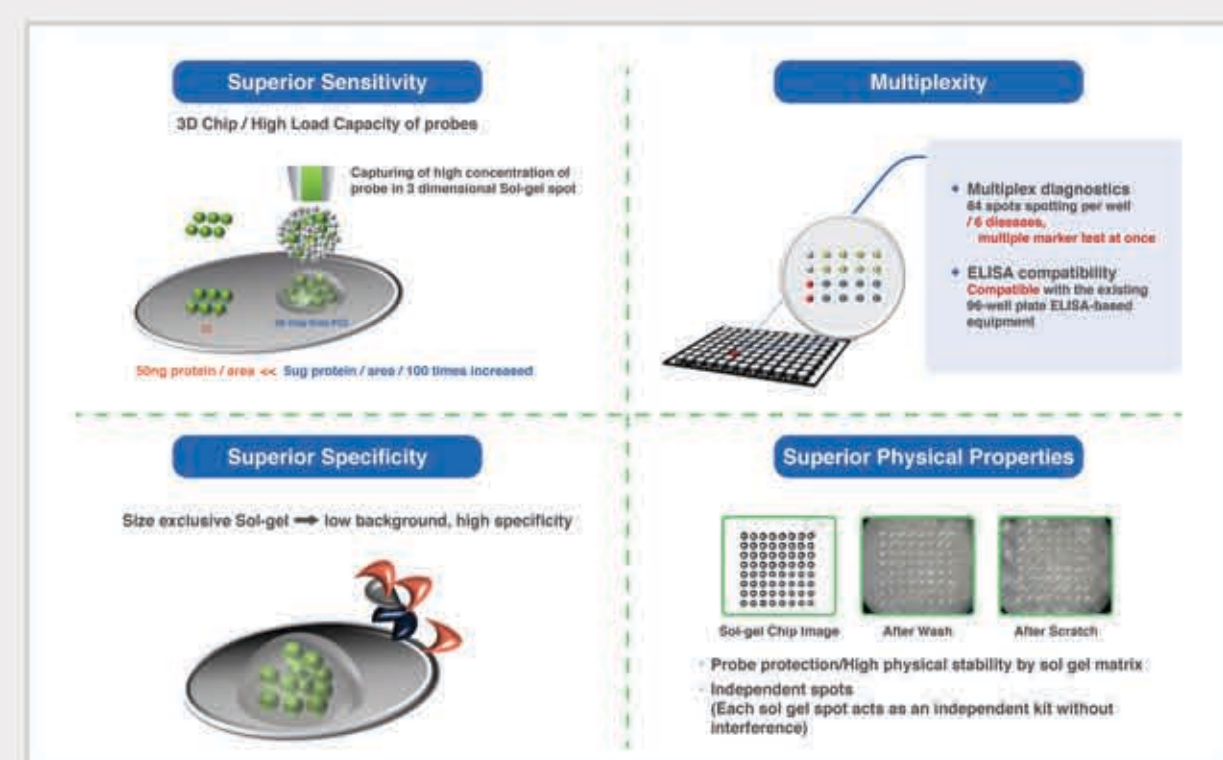
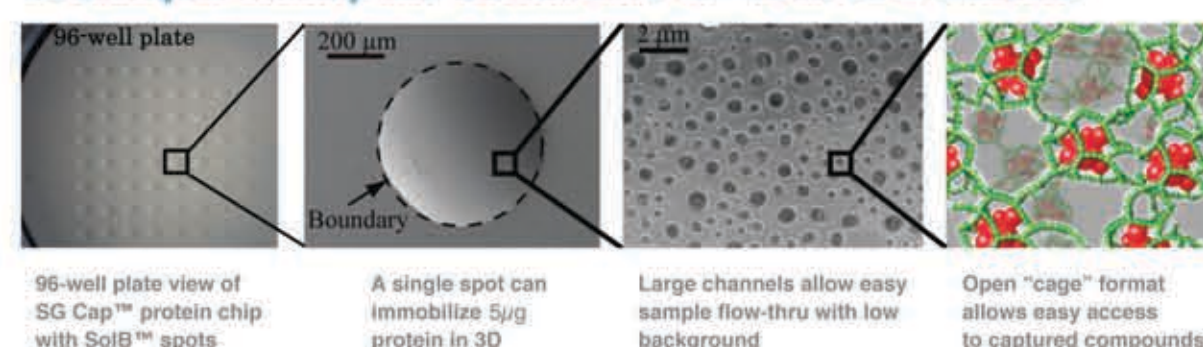


SG Cap™, sol-gel formula assembles into a three-dimensional network of pores connected by larger channels. The porous format significantly increases load capacity while interconnecting channels reduce diffusion distances compared to competing two-dimensional systems.

Samples flow freely through the channels and are immobilized within pores, where they float freely in their native conformations. This makes it possible to study the samples from all angles, while non-specific material easily washes away, reducing the signal-to-noise ratio. SG Cap™ is a unique immobilization method that exceeds the sensitivity and specificity thresholds of currently available technology.



**A Unique Multiplex Solution For Your IVD Needs**



SG Cap™ captures and immobilizes any molecule, making it possible to study its activity. Whether the target is a small molecule or a whole cell, it can be captured without the use of affinity tags, anchors, or modifications. The target's native structure is preserved, leaving all active sites available to study



**Products & Services**

**In Vitro Diagnostics Kits**

- Hi Series®  
- HI3-1, HI3, HI4, HI5, HI6
- Ai®, Ar®, As®
- Cancer®

**Platform Provider Services**

- SolB™ Complete Kit
- SG-ID™
- SG Cap™ Chip Service
- SG Cap™ IVD Product Development

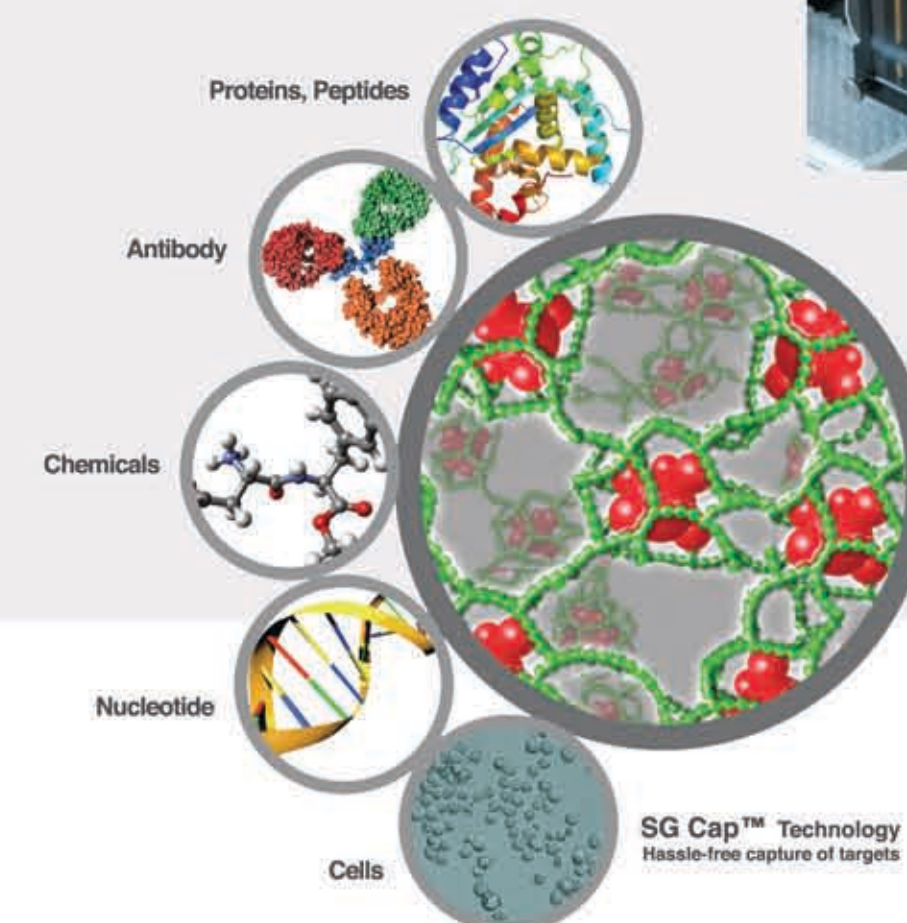
**Contact PCL**

**Asia / Pacific**  
701 Star Valley  
99 Digital-ro 9-gil, Geumcheon-gu  
Seoul, 08510 Korea  
TEL : 82-70-4673-3433

**America / Europe**  
340 Main Street, #910-10,  
Worcester, MA 01608 USA  
TEL : 1-413-835-0848



**Multiplex IVD Platform and Solution**



www.pclchip.com



**In Vitro Diagnostics Kits**

**Blood bank Screening/Clinical Laboratory**

**Hi Series® Multiplex infectious disease diagnostic platforms**

Product Name	HI3-1	HI3	HI4	HI5	HI6
Test Item	HIV 1/2, HCV	HIV 1/2, HCV HBsAg(HBc*)	HIV 1/2, HCV HBsAg(HBc*) HTLV	HIV 1/2, HCV HBsAg, HTLV Syphilis	HIV 1/2, HCV HBsAg, HTLV Syphilis, HBc +Chagas**

\* Will be added to required countries. \*\* vary by countries.

**HI3-1 Multiplex HIV1/2 and HCV antibody detection kit**

Korean FDA(MFDS) approved/ CE-IVD LIST A, TÜV Rhineland Audit completed

**Intended use**

Qualitative immunoassay for the simultaneous detection of antibodies to HIV1/2 and HCV in human serum or plasma.

**Detection method**  
Fluorescent immunoassay (FIA)

**Test item**  
gG and IgM antibodies against HIV and HCV viruses

**Product type**  
96-well plate (480T, 960T)

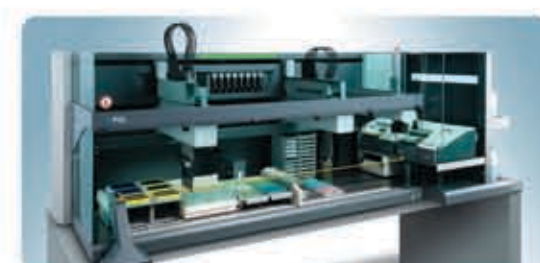


**Clinical evaluation results – South Korea and France**

	Senalivity(%)	Specificity(%)
HIV	100%	99.98%
HCV	100%	99.81%

**Automated Multiplex Immunoassay Analyzer**

**HiSU2005**



- Completely compatible with PCL Multiplex blood screening Hi series
- Designed for high-volume blood screening system

System Capacities	
Loading capacity	Batches 576 samples
Throughput	0.28min/samples

**Portable Diagnostic systems**

**OKI - 15 Portable Diagnostics Analyzer**

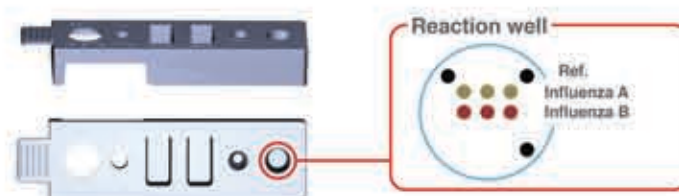
Full automated portable diagnostics system using fluorescence immunoassay by measuring laser-induced fluorescence



- Simultaneous detection up to 4 samples
- - 2 channels, 2 cartridges
- Fluorescence with 550-680nm based CCD
- Liquid handler based system
- Barcode sensing
- User-friendly touch screen

**Respiratory Pathogen**

**Ai®** : Multiplex influenza virus (Influenza A/B/pH1N1)



- High sensitivity (> 90%)
- Less sample volume (< 50ul)
- Fast test time (< 30min)

**Ar®** : Multiplex respiratory syncytial viruses (RSV A/B)

**As®** : Group A Streptococcus (Strep-a)

**Cancer**

**Cancer6®**

Semi-quantitative diagnostic platform for simultaneous detection of multiple cancer markers  
Target : AFP, CEA, CA 19-9, PSA, CA125

	For male		For female
AFP	✓ Hepatocellular carcinoma	AFP	✓ Hepatocellular carcinoma
CEA & CA19-9	✓ Bladder & pancreatic cancer	CEA & CA19-9	✓ Bladder & pancreatic cancer
PSA	✓ Prostate cancer	CA125	✓ Ovarian cancer

**Portfolio**

- Allergy
- Immune system
- Dengue virus/ Zika virus

**Platform Provider Services**

**SolB™ Complete Kit**

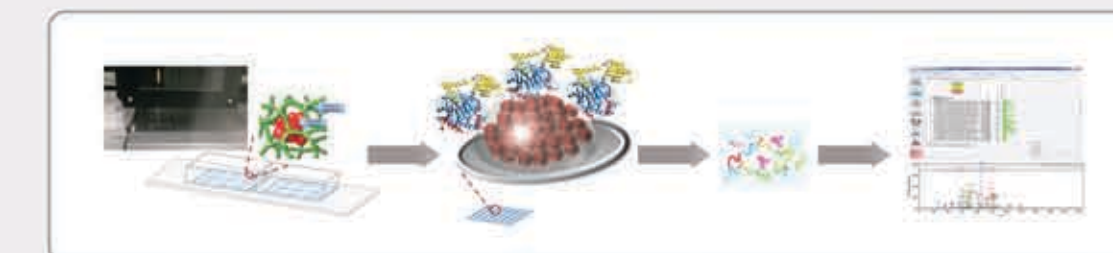
The SolB™ Complete Kit is a new biochip concept for the study of molecular interactions. Molecules are immobilized in their natural, unaltered states within discrete sol-gel spots.



- Immobilizing proteins, antibodies, RNA/DNA, and chemical compounds
- Versatile polymer that can be applied to slides, beads, well-plates, and biosensors
- Users follow a simple protocol to create custom multiplex biochips
- Accompanying arrays available for purchase with kit

**SG-ID™**

A unique strategy to identify new target proteins for chemical drugs using embedded sol-gel microarray coupled with LC-MS/MS



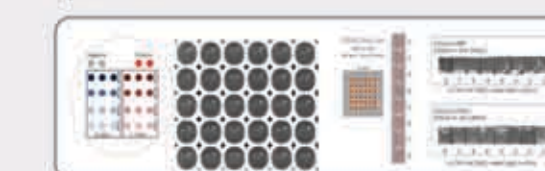
In addition to small molecule drugs, use SG-ID™ to study interactions between protein-chemical, enzyme-substrate, protein-lipid, antibody-antigen and protein-nucleic acid or aptamer pairs.

**SG Cap™ Services**

**Chip Services**

SG Cap™ based customized spotting service for multiplex chips

- Universal molecular immobilization, including proteins, antibodies, DNA/RNA, and small molecules
- Can accommodate over 100 biomarkers per well



**IVD Product Development**

SG Cap™ Platform available to develop customized multiplex IVD products

- ISO13485 compatible facility for CE mark
- Customized OEM/ODM

