

The APiX GR8 System Scanner & Analysis Software

The GR8 way to cost effective high throughput multiplex protein analysis!

Applications

- High density antibody arrays (qualitative & quantitative) for cancer, allergy, and autoimmune research
- Enables glycan detection, sandwich assays, probing tumor/cell lysates, and biomarker discovery

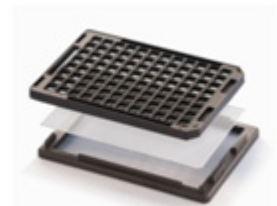
System Components

APiX Arrays - transparent nitrocellulose glass substrates available in two formats:

- Conventional 3" x 1" slide (16 array)
- 96-well (NIST convention)



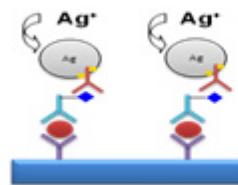
APiX16 with 4-slide holder (64 total)



APiX96 with accompanying holder

APiX View - chromogenic detection by gold nanoparticle catalyzed silver crystal deposition

- Analogous to protein gel silver staining
- Excellent signal to noise ratios with sensitivity >> fluorescent and other chromogenic systems
- Avoids amplification "blooming" effect common in chromogenic detection systems

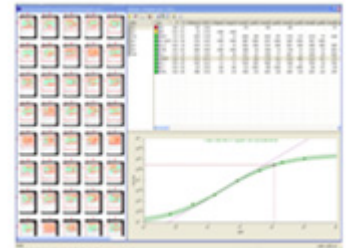


APIx GR8 - visible wavelength array scanner that is cost effective, fast, and robust.

- Measures (2) 96 well plates or (8) 3" x 1" slides
- 4X faster than conventional scanners
- Includes easy to use analysis software



APIx GR8 Scanner



Gentel Analysis Software

Supporting Data

Limit of Detection Comparison (pg/mL)				
Platform	Protein Type			
	PDGF	PIGF	FGF	VEGF
ELISA Spec	<15	<7	<3	<5
ELISA Observed	16.4	20.9	35.3	26.6
Fluorescent Array	1.4	1.5	19.2	28.7
APIx Chromogenic	1.2	0.4	11.0	5.9

Table 1: Limit of detection (LOD) for all three methods in pg/mL calculated from standard dilution curves. LODs were calculated by adding two standard deviations to the mean measured value of two blanks and calculating the corresponding concentration.

Table 1. Limits of detection are reported for ELISAs, fluorescent protein arrays and APIx Chromogenic. While ELISA kit expected results can vary from actual results the average sensitivity improvement delivered by APIx Chromogenic over ELISA is 10 fold.

Figure 1. The APIx Array demonstrates greater sensitivity than fluorescent arrays and ELISA assays without sacrificing dynamic range.

Standard Dilution Series

