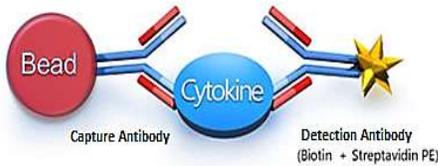
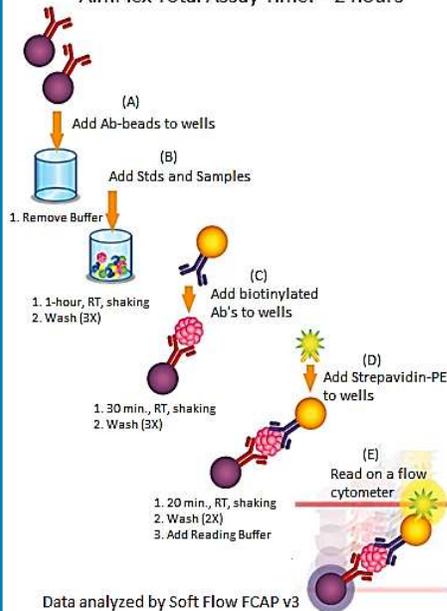


- Up to 24-Plex
 - * 2 bead sizes (S4) and (S5)
 - * 12 levels of fluorescence intensity for each bead size
- Works on flow cytometers equipped with a single blue or dual (blue and red) lasers
 - * Uses the PE and either PE-Cy5 or APC detectors
 - * No need to purchase and maintain another piece of expensive equipment
- Classic "Sandwich" style Immunoassay format using capture (cAb) and detection (dAb) antibodies:



Assay Protocol Overview

AimPlex Total Assay Time: ~ 2 hours



For research use only.
Not for use in diagnostic procedures.

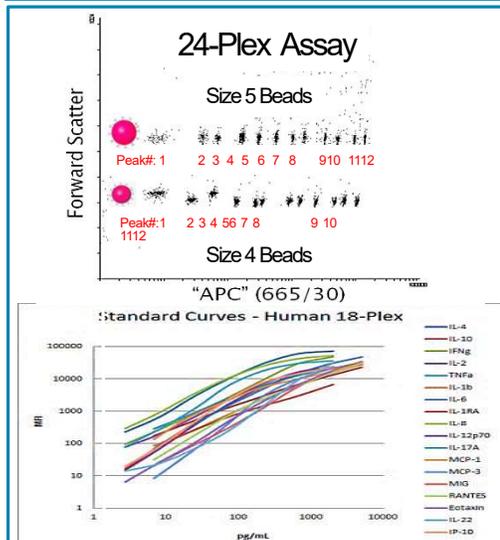
Benefits

- Multiplexing
 - Less sample needed – only 15 µL!
 - Less assay time and cost
- Consistent and superior assay performance
- Flexible assay panels
 - "Mix and Match" one or more individual analyte from a given Group to create a custom panel for your research
 - Some assays can multiplex across Groups – contact YSLBio for details
- More than 400 assays now available
- Premixed standards and beads are "ready to use" – less pipetting steps
- Available in 32-test and 96-test kits

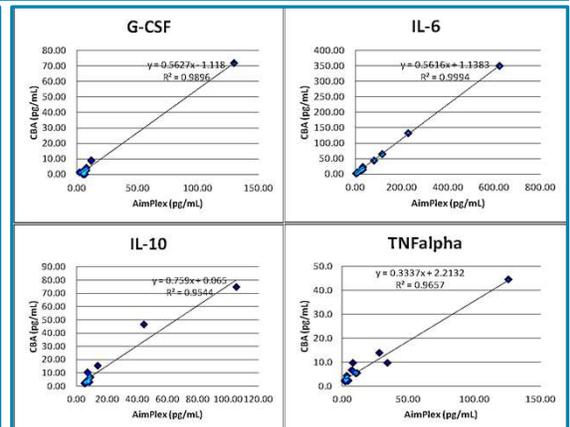
Assay Specifications

- Sample types: cell culture supernatant, saliva, plasma, cell/tissue lysates, serum, BALF, pleural and peritoneal fluids, and others
 - LOD¹: Majority of the assays < 10 pg/mL
 - LLOQ²: Majority of the assays < 20 pg/mL
 - ULOQ³: Majority of the assays > 5,000 pg/mL
 - Standard dose recovery: 70-130%
 - Intra-assay CV: < 10%; Inter-assay CV: < 20%
 - Cross-reactivity of Panel analytes: negligible
 - Sample volume: 15 µL
1. LOD: Limit of Detection (Sensitivity)
2. LLOQ: Lower Limit of Quantification (Precision and Accuracy)
3. ULOQ: Upper Limit of Quantification (Precision and Accuracy)

Representative Data

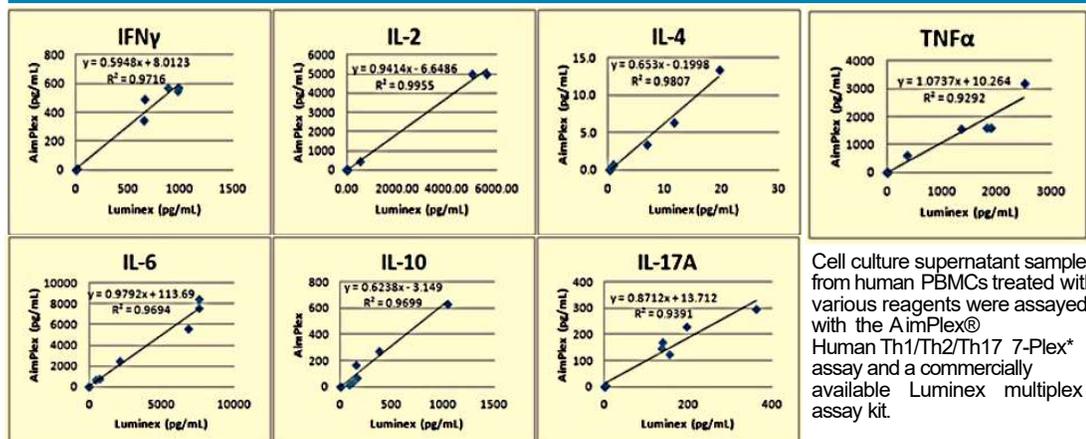


Correlation with CBA™ Assays



Human normal and abnormal serum samples were measured with both AimPlex® and CBA assays and analyzed on a BD FACSCanto II.

Correlation with Luminex™ Assays



Cell culture supernatant samples from human PBMCs treated with various reagents were assayed with the AimPlex® Human Th1/Th2/Th17 7-Plex* assay and a commercially available Luminex multiplex assay kit.

*Assays analyzed on a BD FACSCalibur™, Sony EC800™ or Beckman Coulter CyAnADP™
Note: Trademarks are the property of their respective owners

Human

Activin A	CXCL13/BCA-1	IL-3	OSM/Oncostatin M
Adiponectin	CXCL14/BRAK	IL-4	PAPPA
AFF	CXCL16/SYCB16	IL-5	PD-1/sCD279
ALCAM/sCD166	Cystatin C/CST3	IL-6	PDGF-AA
Amphiregulin/AREG	E-Cadherin/CDH1/sCD324	IL-6R- α /sCD126	PDGF-AB
ANGPT-1/Angiopoietin-1	EGF	IL-7	PDGF-BB
Artemin/ARTN/Neublastin	EGFR/ErbB1	IL-8/CXCL8	PDCCD1LG1/PDL-1/sCD274
BDNF	EG-VEGF/PROK1/PK1	IL-9	PDCCD1LG2/PDL-2/sCD273
Betacellulin/BTC	Elafin	IL-10/CSIF	PECAM-1/sCD31
β -NGF/NGFB	Endoglin/sCD105	IL-11	Perforin/PPF/PRF1
BIGH3/TGFB1/ β IG-H3	Endostatin	IL-12 (p70)	PIGF/PIG-F
BLYS/BAFF/sCD257/TNFSF13B	EpCAM/MK-1/sCD326	IL-12/IL-23 (p40)	Pro-BDNF
BMP-2	EPO-R	IL-13	Procalcitonin/PCT
BMP-4	E-selectin/ELAM-1/sCD62E	IL-15	P-selectin/LECAM-3/sCD62P
CA15-3/MUC1	Ferritin	IL-16/LCF	RAGE/AGER/sRAGE
CA19-9	FGF-1/FGF-acidic/HBGF-1	IL-16/CTLA-8	Reg3A
CA125/MUC16	FGF-2/FGF-basic/HBGF-2	IL-17C	Resistin/ADSF
CA50	FGF-4	IL-17F	SCF/MGF/KIT-Ligand
CCL1/SCYA11-309	FGF-7/KGF	IL-18	SLAMF4/2B4/NAIL/sCD244
CCL2/SCYA2/MCP-1	FGF-9/HBGF-9/GAF	IL-19	SLAMF8/BLAME/sCD353
CCL3/SCYA3/MIP-1 α	FGF-19	IL-20/IL-10D	SLP
CCL4/SCYA4/MIP-1 β	Fit-3 Ligand/Fit-3L/Fik-2L	IL-21	SAA/Serum Amyloid A
CCL5/SCYA5/RANTES	Follistatin/FST	IL-22/IL-TIF	ST2/IL-1RA/IL1RL1
CCL7/SCYA7/MCP-3/MARC	Galectin-1/Galaptin	IL-23/IL-23p19	Survivin/BIRC5
CCL8/SCYA8/MCP-2	Galectin-9	IL-24/MDA-7	TGF- α /TGF- β /TGFA
CCL11/SCYA12/Eotaxin-1	G-ASP-1/WFIK1NRP	IL-25/IL-17E	TGF- β 1/TGF- β 1/TGFB
CCL13/SCYA13/MCP-4	G-CSF/CSF-3	IL-27/IL-27A	THPO/Thrombopoietin/MGDF
CCL14/SCYA14/HCC-1	GDF-15/MIC-1/PTGFB	IL-28A/IFN-Lambda-2/IFN- λ 2	TIM-1/HAVCR-1/KIM-1
CCL15/SCYA15/MIP-1 delta	GDNF/ATF-1	IL-29/IFN-Lambda-1/IFN- λ 1	TIM-3/HAVCR2
CCL16/SCYA16/HCC-4	GM-CSF/CSF-2	IL-31	TIMP-1/TIMP1
CCL17/SYCA17/TARC	Gp130/sCD130/IL6ST	IL-32	TIMP-2/TIMP2
CCL18/SCYA18/PARC	Granzyme A/GZMA /CTLA3	IL-33/NFNEV/DVS27	TL1A/TNFSF15/VEGI
CCL19/SCYA19/MIP-3 β	Granzyme B/GZMB/CTL1	IL-34	TNF- α /TNF- α
CCL20/SCYA20/MIP-3 α	HGF/Hepatopoietin A	Insulin	TNF- β /TNF- β /TNFSF1A/LTA
CCL21/SCYA21/6CKine	ICAM-1/sCD54	Keratin 19/KRT19/CK-19	TNFRSF1A/sCD120a/sTNF R1
CCL22/SCYA22/MDC	ICAM-3/sCD50	Klotho/KLA/KL	TNFRSF1B/sCD120b/sTNF R2
CCL23/SCYA23/MPIF-1	IFN- α 2	LAP(TGF- β 1)/Latent TGF- β 1	TNFRSF5/sCD40
CCL24/SCYA24/Eotaxin-2	IFN- β	Leptin/LEP	TNFRSF6/sCD95/FasR
CCL25/SCYA25/TECK	IFN- γ	LIF	TNFRSF9/sCD137/4-1BB
CCL26/SCYA26/Eotaxin-3	IgA	Lipocalin-2/LCN2/NGAL	TNFRSF10C/sCD264/TRAIL-R3
CCL27/SCYA27/CTAK	IgE	L-selectin/LECAM-1/sCD62L	TNFRSF13B/sCD267/TACI
CCL28/SCYA28/MEC	IgG1	Lymphotactin/XCL1/SCYC1	TNFRSF14/sCD270/HVEM
CD14/sCD14	IgG2	M-CSF/CSF-1	TNFRSF17/BCLMA/sCD269
CD163/M130/sCD163	IgG3	MIA/CD-RAP	TNFSF5/sCD154/sCD40L
CD73/NT5E5/5-Nucleotidase	IgG4	Midkine/MK/NEGF2	TNFSF6/sCD178/sCD95L/FasL
CEACAM-1/CD66a	IGF1	MIF	TNFSF8/sCD153/sCD30L
CEA/CEACAM-5/CD66e	IGF2	MMP-1/CLGN (Total)	TNFSF10/sCD253/TRAIL
CNTF	IGFBP-1	MMP-2/Gelatinase A	TNFSF11/sCD254/RANKL
CRP/C-Reactive Protein	IGFBP-2	MMP-3/Stromelysin-1 (Total)	TNFSF12/TWEAK/Apo3 Ligand
CX3CL1/Fractalkine	IGFBP-3	MMP-7/PUMP-1 (Total)	TNFSF13/sCD256/APRIL
CXCL1/MGSA/GRO α	IGFBP-5	MMP-8/Collagenase 2 (Total)	TNFSF14/sCD258/LIGHT
CXCL2/GRO β /MIP-2 α /GRO2	IGFBP-6	MMP-9/MANDP2 (Total)	TSLP
CXCL4/PP4	IGFBP-7	MMP-13/Collagenase 3 (Total)	Uteroglobin/CC10/CC16
CXCL5/SCYB5/ENA78	IL-1 α /IL1A/IL-1F1	MPO	VCAM-1/sCD106
CXCL6/GCP-3	IL-1 β /IL1B/IL-1F2	NCAM-1/sCD56	VEGFA
CXCL7/SCYB7/NAP-3	IL-1RA	NOV/CCN3/IGFBP-9	VEGFC
CXCL9/MIG	IL-1R1/sCD121a	NRG1-beta1/HRG1-beta1	VEGF-D/FIGF
CXCL10/IP-10	IL-1R2/sCD121b	OPG/Osteoprotegerin	VEGFR1/Fit-1
CXCL11/I-TAC	IL-2	OPN/Osteopontin/BNSP	VEGFR2/Fik-1/sCD309/KDR
CXCL12/SDF-1	IL-2R α /sCD25		VAP-1/AOC3

Mouse

Activin A	IL-2R α /sCD25
ANGPT-1/Angiopoietin-1	IL-3
BDNF	IL-4
beta-NGF/NGFB	IL-5
BLYS/BAFF/sCD257/TNFSF13B	IL-6
BTC/Betacellulin	IL-7
CCL2/SYCA2/MCP-1	IL-7R/IL-7R α /sCD127
CCL3/SYCA3/MIP-1 α	IL-9
CCL4/SCYA4/MIP-1 β	IL-10/CSIF
CCL5/SCYA5/RANTES	IL-11
CCL7/SYCA7/MCP-3/MARC	IL-12/IL-23 p40
CCL8/MCP-2	IL-12p70
CCL9/CCL10/MRP2/MIP-1 γ	IL-13
CCL11/Eotaxin	IL-15
CCL12/MCP-5	IL-17A/CTLA-8
CCL17/SYCA17/TARC	IL-17F
CCL19/SCYA19/MIP-3 β	IL-20/IL-10D
CCL20/SCYA20/MIP-3 α	IL-21
CCL21/Exodus-3/6CKine	IL-22
CCL22/MDC/ABCD-1	IL-23p19
CCL24/Eotaxin-2/MPIF-2	IL-25/IL-17E
CCL27/SCYA27/CTAK	IL-28A/IFN-Lambda-2/IFN- λ 2
CCL28/MEC/CCK-1	IL-33/NFHEV/DVS27
CD14/sCD14	Leptin/LEP
CRP/C-Reactive Protein	LIF
CX3CL1/FKN/Fractalkine	L-selectin/sCD62L
CXCL1/GRO α /KC	M-CSF/CSF-1
CXCL2/GRO β /MIP2	Nephrilysin/NEP/sCD10
CXCL4/PP4	OPG/Osteoprotegerin
CXCL5/SCYB5/ENA78	OSM/Oncostatin M
CXCL9/MIG	P-selectin/LECAM3/sCD62P
CXCL10/IP-10	RAGE/sRAGE/AGER
CXCL13/BCA-1/BLC	TGF-beta 1/TGF- β 1/TGFB
CXCL14/BRAK/MIP-2 γ	TIMP-1/TIMP1
CXCL16/SCYA16/HCC-4	TNF-alpha/TNF- γ
EGF	TNF-beta 1/sCD120
Endoglin/sCD105	TNFR2/sCD120b
E-selectin/sCD62E	TNFRSF7/sCD27
FGF-1/FGF-acidic/HBGF1	TNFRSF8/sCD30
FGF-2/FGF-basic/HBGF2	TNFRSF12A/sCD266/TWEAK-R
FGF-9/HBGF-9/GAF	TNFSF5/sCD155/sCD40L
G-CSF/CSF-3	TNFSF8/sCD154/sCD30L
GM-CSF/CSF-2	TNFSF11/sCD254/RANKL
HGF/HPTA/SF	TPO/Thrombopoietin
ICAM-1/CD54	TSLP
IFN- γ	VCAM-1/sCD106
IFN- γ R1/IFNGR1/sCD119	VEGF
IL-1 alpha/IL-1F1	VEGFR1/Fit-1/sVEGFR1
IL-1 beta/IL-1F2	VEGFR2/Fik-1/sCD309/KDR
IL-1RA	
IL-1R1/sCD121a	
IL-2	

Rat

BDNF	IL-1 α /IL-1F1
β -NGF/NGFB	IL-1 β /IL-1F2
CCL2/SYCA2/MCP-1	IL-2
CCL3/SYCA3/MIP-1 α	IL-4
CCL5/SCYA5/RANTES	IL-5
CCL7/SCYA7/MCP-3	IL-6
CCL11/Eotaxin	IL-10/CSIF
CD154/sCD40L/TRAP/TNFSF5	IL-12p40
CD62P/P-selectin/ LECAM-3	IL-12p70
CXCL1/Gro α /KC	IL-13
CXCL2/Gro β /MIP2	IL-15
CXCL4/PP4	IL-17A/CTLA-8
CXCL6/SCYB6/GCP2	Leptin
CXCL10/IP-10	PDGF-AB
CXCL12/SDF-1	TIMP-1
G-CSF/CSF-3	TNF-alpha/TNF- α
GM-CSF/CSF-2	TNFSF11/sCD254/RANKL
ICAM-1/sCD54	VCAM-1/sCD106
IFN γ	

NHP

β -NGF/NGFB	IL-10/CSIF
CCL2/SYCA2/MCP-1	IL-12p70
CCL5/RANTES	IL-17A/CTLA-8
CCL7/MCP-3/MARC	TGF- α /TGF-type I
CCL11/Eotaxin	TNF- α
CXCL9/MIG	
CXCL10/IP-10	
CXCL12/SDF-1	
FGFbasic/FGF-2	
IFN γ	
IL-1 β	
IL-1RA	
IL-2	
IL-4	
IL-5	
IL-6	
IL-8/CXCL8	

Canine

IFN γ
IL-2
IL-6
IL-8/CXCL8
IL-10/CSIF
IL-12p40
IL-17A
Insulin
MCP-1/IE/CCL2
SCF/MGF/KITLG
TNF α
VEGF

Sub-Categories

Human: Groups 1 – 10
 Mouse: Groups 1 – 5
 Rat: Groups 1 and 2
 Non-Human Primate: Group 1
 Canine: Group 1



Distributed by:



DIAGNOSTICS NV

Contact us: info@imtec.be | 03-2251139