

Luminex Performance & Screening Assay

무조건 많이 섞는 것이 Multiplex의 의미 일까요?

정확한 결과가 아니라면,

동시에 여러 target을 측정 하는 것은 의미가 없습니다.



✓ **확인해 보세요!**

- Gold Standard인 R&D ELISA와 correlation
- Multi assay의 한계 극복을 위한 diluent 준비
- 무작정 분석 가능한 molecule 수 강조 사양

✓ **정확한 결과**

R&D Quantikine과
최고의 **Correlation**

✓ **재현성 있는 결과**

실험 조건, lot 별로
발생 가능한
variation 최소화

✓ **검증 가능한 결과**

ELISA와 control을 이용하여
주기적인 **QC** 및
데이터 검증 가능

	Polystyrene Bead				Magnetic Bead	
	Performance Assay	Premixed Performance Assay	Premix Performance Assay #-Plex	Screening Assay	Magnetic Performance Assay	Magnetic Premixed Performance Assay
용량	1 plate					
Bead 구성	Individual vials	Premixed cocktail	Premixed cocktail	Premixed Cocktail	Individual vials	premixed cocktail
분석 Analyte 수	최대 22	최대 10	최대 4	최대 100	최대 22	최대 10
Analyte 선택방법	고객 선택	고객 선택	고정 패널	고객 선택	고객 선택	고객 선택
Sample Type	CCS*, serum, plasma *CCS; Cell culture supernates					
Species	Human, rat		Human	Human, mouse	Human	Human
Kit 구성	Base kit+bead	Customized kit	Premixed kit	Customized kit	Base kit+bead	Customized kit

Luminex Assay Analyte List

Human Free-panel

Adiponectin, **Aggrecan**, **Amphiregulin**, Angiopoietin-2, **APP**, TNFSF13B, **BCMA**, **BMP-2**, **BMP-4**, BMP-9, CA125, **Calbindin D**, CCL2/MCP-1, CCL3/MIP-1 α , CCL4/MIP-1 β , CCL5/RANTES, CCL7/MCP-3, CCL8/MCP-2, CCL13/MCP-4, CCL17/TARC, CCL18/PARC, CCL20/MIP-3 α , CCL22/MDC, Eotaxin-3, **CD14**, **CD27**, CD30, **CD40**, CD163, Chitinase 3-like1, Protein C, Complement Factor D, CRP, **Cripto-1**, CXCL1/GRO α , CXCL4, CXCL5, CXCL8, CXCL9, CXCL10, CXCL11, CXCL13, CXCL16, DcR3, Dkk-1, **DR3**, EGF, **Autotaxin**, **EphA2**, **Epo**, Fas, Fas Ligand, FGF-basic, FGF-21, **Follistatin**, FLRG, Galectin-3, G-CSF, GDF-15, GM-CSF, Growth Hormone, HB-EGF, HGF, ICAM-1, IFN- γ , IFN- γ R1, IGFBP-1, IGFBP-3, IL-1 α , IL-1 β , IL-1ra, IL-1RI, IL-1RII, IL-2, IL-2R α , IL-4, IL-5, IL-6, IL-6R α , IL-9, IL-10, IL-12p70, IL-13, IL-17A, IL-17F, **IL-18BPa**, **IL-19**, IL-22, IL-23, IL-27, **IL-28A**, IL-31, IL-33, IL-34, Leptin, M-CSF, **MFG-E8**, **MICA**, MICB, MIF, MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-12, MMP-13, MPO, Cardiac Myoglobin, **NRG1- β 1**, Oncostatin, Pentraxin3, Periostin, **Progranulin**, **PCSK9**, RAGE, Renin, Resistin, ROBO4, SCF, E-Selectin, P-Selectin, Serpin C1, Serpin E1, SHBG, SOST, SPARC, **SP-D**, **ST2/IL-1 R4**, **TACI**, Tenascin C, **TFPI**, **Tpo**, Thrombospondin-2, **Tie-1**, Tie-2, TNF- α , TNF RI, TNF RII, TRAIL R2, **TRAIL R3**, TRANCE, **TfR**, **Cardiac Troponin I**, **ULBP-1**, **ULBP-2/5/6**, **ULBP-3**, **ULBP-4**, **uPAR**, **Uteroglobin**, VAP-1, VCAM-1, VEGF VEGF-C, VEGF R3, vWF-A2

Mouse Free-panel

BAFF, CD93, MCP-1, MIP-1 α , MIP-1 β , RANTES, MIP-3 α , CXCL1/KC, MIP-2, LIX, CXCL10, CXCL12, EPO, FGF-21, FGF-basic, G-CSF, GM-CSF, IFN- γ , IGF-I, IL-1 α , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-13, IL-17A, IL-23p19, IL-33, Leptin, Lipocalin-2, M-CSF, MMP-9, OPN, PCSK9, Resistin, TNF- α , VEGF

Rat Free-panel

CXCL3, CXCL2, GM-CSF, I-CAM-1, IFN- γ , IL-1 α , IL-1 β , IL-2, IL-4, IL-6, IL-10, IL-13, IL-18, L-Selectin, TIMP-1, TNF- α , VEGF

Panel list

** Polystyrene bead**

Human Cytokine A - MCP-1, MIP-1 α , MIP-1 β , RANTES, CXCL8, CXCL5, FGF-basic, GM-CSF, G-CSF, IFN- γ , IL-1 α , IL-1ra, IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-10, IL-17, TNF- α , Tpo, VEGF

Human Cytokine B - CCL11, CD40 Ligand, CXCL10, CXCL11, EGF, HGF, IL-12p70, IL-13, Leptin

Human HS Cytokine - CXCL8, GM-CSF, IFN- γ , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, TNF- α , VEGF

Human Angiogenesis A - **Angiogenin**, **Angiopoietin-1**, **Endostatin**, FGF-acidic, FGF-basic, PDGF-AA, PDGF-BB, PIGF, Thrombospondin-2, VEGF, VEGF-D

Human Obesity - Adiponectin, CRP, MCP-1, Complement Factor D, IL-6, IL-10, Leptin, Resistin, Serpin E1, TNF- α

Human Biomarker A - BAFF, MIP-3 α , **CD14**, **CD27**, CXCL13, GP130, IL-2R α , IL-6R α , TNF RII

Human Cardiac A - CD40 Ligand, GDF-15, Pappalysin-1/PAPP-A, **Proprotein Convertase 9/PCSK9**, IL-1R4, TNF RII

Human Cardiac B - CRP, Cystatin C, MPO, P-Selectin, Serpin E1, TIMP-1

Human MMP - MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-12, MMP-13, **EMMPRIN**

Rat Kidney Toxicity - Cystatin C, FABP1, Lipocalin-2, TIM-1/KIM-1, OPN

Human Adhesion - sICAM-1, sE-Selectin, sP-Selectin, sVCAM-1

Human/mouse/rat/porcine TGF- β - TGF- β 1, TGF- β 2, TGF- β 3

Human TIMP - TIMP-1, TIMP-2, TIMP-3, TIMP-4

Magnetic bead

Human Cytokine A - MCP-1, MIP-1 α , MIP-1 β , RANTES, CXCL8, CXCL5, FGF-basic, G-CSF, IFN- γ , IL-1 α , IL-1 β , IL-1ra, IL-2, IL-4, IL-5, IL-6, IL-10, IL-17, TNF- α , Tpo, VEGF, GM-CSF

Human HS Cytokine A - CXCL8, GM-CSF, IFN- γ , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, TNF- α , VEGF

Human HS Cytokine B - GM-CSF, IFN- γ , IL-1 β , IL-2, IL-5, IL-6, IL-7, IL-10, IL-13, IL-15, IL-17A, IL-17F, IL-22, IL-23, IL-31, IL-33, IL-36 β , TNF- α

Human MMP - MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-12, MMP-13, **EMMPRIN**

Human Angiogenesis - **Angiogenin**, **Angiopoietin-1**, **Endostatin**, FGF-acidic, FGF-basic, PDGF-AA, PDGF-BB, PIGF, Thrombospondin-2, VEGF, VEGF-D

Human Kidney Biomarker - Clusterin, Cystatin C, OPN, Fetuin A, Lipocalin-2/NGAL, RBP4, TFF3, TIM-1/KIM-1, CXCL10

Human TIMP - TIMP-1, TIMP-2, TIMP-3, TIMP-4

** 파랑색 protein은 R&D Systems Luminex assay에만 있는 Analyte입니다.