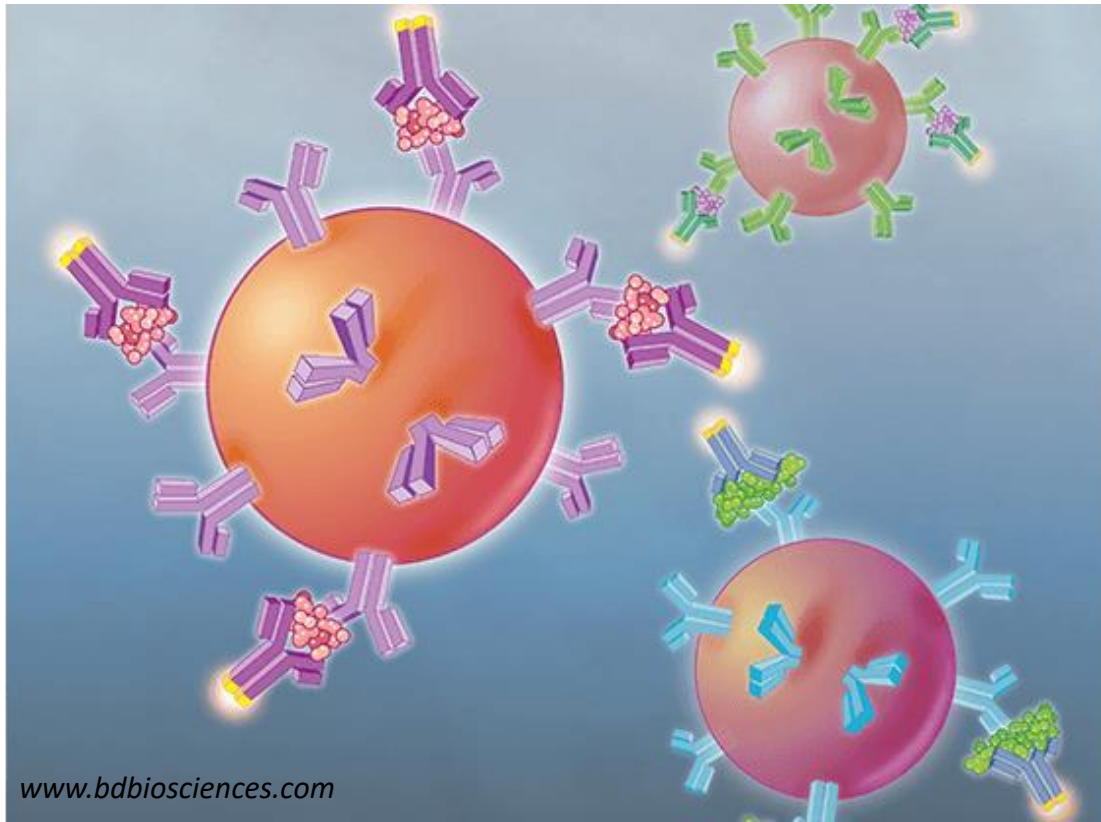
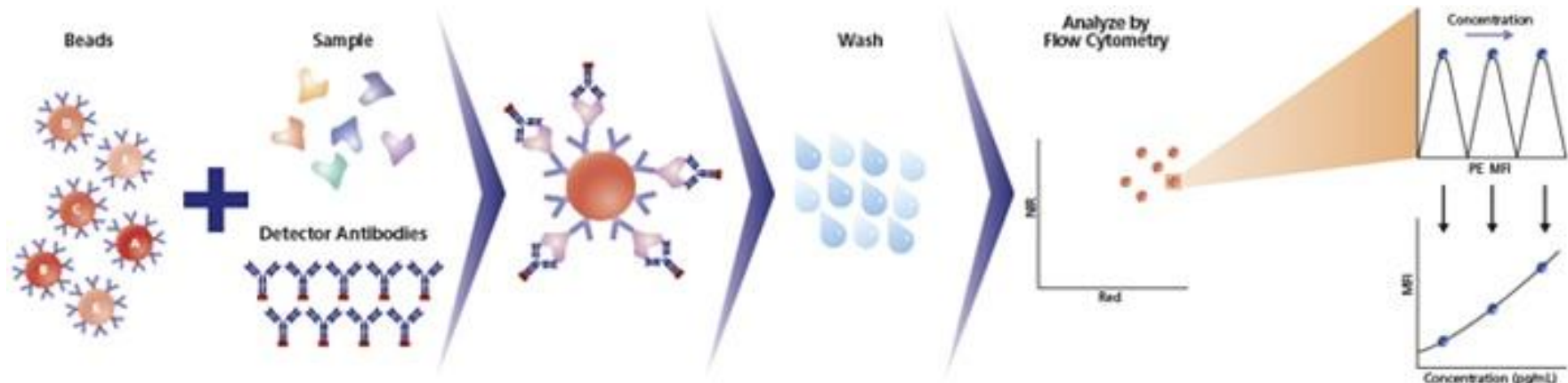


Detekce cytokinů pomocí bead assays



ELISA	Cytometry Bead Assay
zlatý standard klinických aplikací (IVD)	převážně výzkum, klinické testy Luminex
ELISA reader	průtokový cytometr, Luminex reader
kolorimetrie, chemiluminiscence	fluorescence
destička	kuličky
1 jamka = 1 antigen	multiplex (1 zkumavka = více antigenů)
x multiplex ELISA (Quansysbio)	x cross-reaktivity, software
25 - 50uL vzorku	12,5 - 50uL vzorku
čas, náklady vyšší	čas, náklady nižší
supernatant, sérum, plazma, lyzát	supernatant, sérum, plazma, lyzát
senzitivita 0,1 pg/mL	senzitivita 0,25 pg/mL



(CBA) Kits

Your Selections

[Clear All](#)

Product Type

☐ Kits/Sets/Pairs (4)

Reactivity

- ☒ Human (4)
- ☐ Baboon (1)
- ☐ Cynomolgus (1)
- ☐ Mouse (3)

Application

☐ Flow cytometry (4)

Size

☐ 80 Tests (4)

Regulatory Status

☐ RUO (4)

Sort by:

Kits/Sets/Pairs



BD™ Cytometric Bead Array (CBA) Human Chemokine Kit

Size: 80 Tests Status: RUO Cat No.: 552990

[Quick View](#)



BD™ Cytometric Bead Array (CBA) Human Inflammatory Cytokine Kit

Size: 80 Tests Status: RUO Cat No.: 551811

[Quick View](#)

> 2-7 pg/ml



BD™ Cytometric Bead Array (CBA) Human Th1/Th2/Th17 Kit

Size: 80 Tests Status: RUO Cat No.: 560484

[Quick View](#)



BD™ Cytometric Bead Array (CBA) Human Anaphylatoxin Kit

Size: 80 Tests Status: RUO Cat No.: 561418

[Quick View](#)



BD™ Cytometric Bead Array (CBA) Human IL-1β Enhanced Sensitivity Flex Set

Size: 100 Tests Status: RUO Cat No.: 561509

[Quick View](#)



BD™ Cytometric Bead Array (CBA) Human IFN-γ Enhanced Sensitivity Flex Set

Size: 100 Tests Status: RUO Cat No.: 561515

[Quick View](#)

> 0,25 pg/ml



BD™ Cytometric Bead Array (CBA) Human IL-2 Enhanced Sensitivity Flex Set

Size: 100 Tests Status: RUO Cat No.: 561517

[Quick View](#)



BD™ Cytometric Bead Array (CBA) Human IL-4 Enhanced Sensitivity Flex Set

Size: 100 Tests Status: RUO Cat No.: 561510

[Quick View](#)



BD™ Cytometric Bead Array (CBA) Human IL-12p70 Enhanced Sensitivity Flex Set

Size: 100 Tests Status: RUO Cat No.: 561518

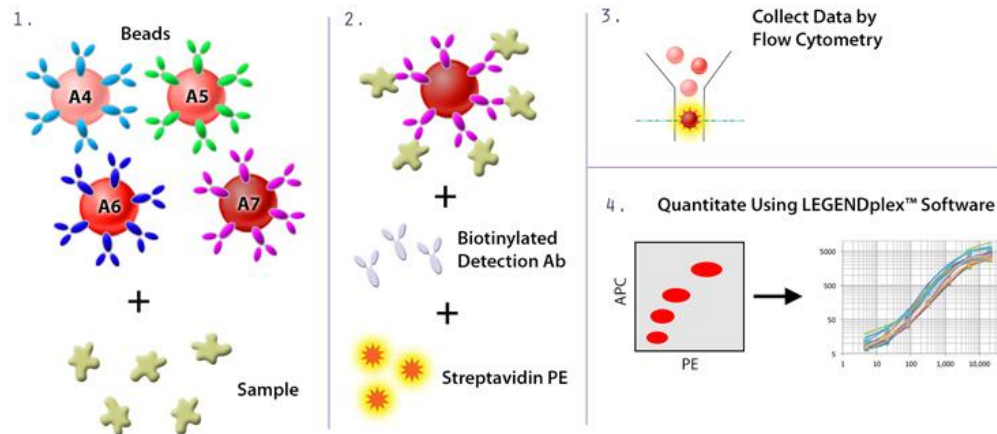
[Quick View](#)



BD™ Cytometric Bead Array (CBA) Human IL-17A Enhanced Sensitivity Flex Set

Size: 100 Tests Status: RUO Cat No.: 562143

PRINCIPLE OF THE ASSAY



> 2-4 pg/ml

BioLegend's LEGENDplex™ bead-based immunoassays quantify multiple soluble analytes simultaneously in biological samples using a flow cytometer.

Overview	Panel Wizard	Pre-defined Panels	Mix and Match	Custom Panels
Software	Instrument Setup	Hands-on Training	Support	Ancillary Products

Items included in the kit:

- Setup beads
- Capture beads
- Matrix solution
- Detection antibody mix
- Standard cocktail
- All of the required buffers
- Filter plate or V-bottom plate
- Plate sealers
- Data analysis dongle
- Manual

Required items *not* included in the kit:

- Flow Cytometer
- Pipettes and tips
- Reagent reservoirs for multichannel pipettes
- Polypropylene microfuge tubes
- Vortex mixer
- Sonicator
- Plate shaker
- A vacuum filtration unit and a vacuum source (if using filter plates)

Select a species to begin

Pre-defined Human Panels	Pre-defined Mouse Panels	Pre-defined NHP Panels	Pre-defined Rat Panels
--------------------------	--------------------------	------------------------	------------------------

Human T Helper Cytokine Panels

[View Manual](#) [Back to top](#)

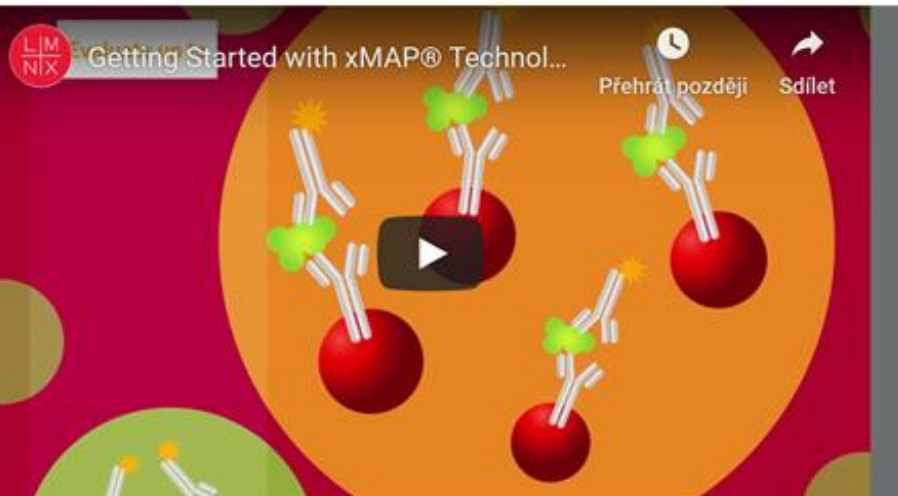
Target	Bead ID	Th	Th1	Th2	Th1/Th2	Th17	Th9	Th22	Tfh
IL-5	A4	✓		✓	✓				
IL-13	A5	✓		✓	✓				
IL-2	A6	✓	✓		✓				
IL-6	A7	✓	✓	✓	✓	✓		✓	✓
IL-10	A10	✓	✓	✓	✓	✓	✓	✓	✓
IL-9	A8	✓					✓		
IFN-γ	B2	✓	✓		✓	✓			
TNF-α	B3	✓	✓	✓	✓	✓	✓	✓	✓
IL-17A	B4	✓				✓			
IL-17F	B5	✓				✓			
IL-4	B6	✓		✓	✓				
IL-21	B7	✓				✓			✓
IL-22	B9	✓				✓		✓	
Options	Kit with Filter Plate	740721	740723	740725	740729	740727	740731	740733	740735
Options	Kit with V-bottom Plate	740722	740724	740726	740730	740728	740732	740734	740736



xMAP® Technology

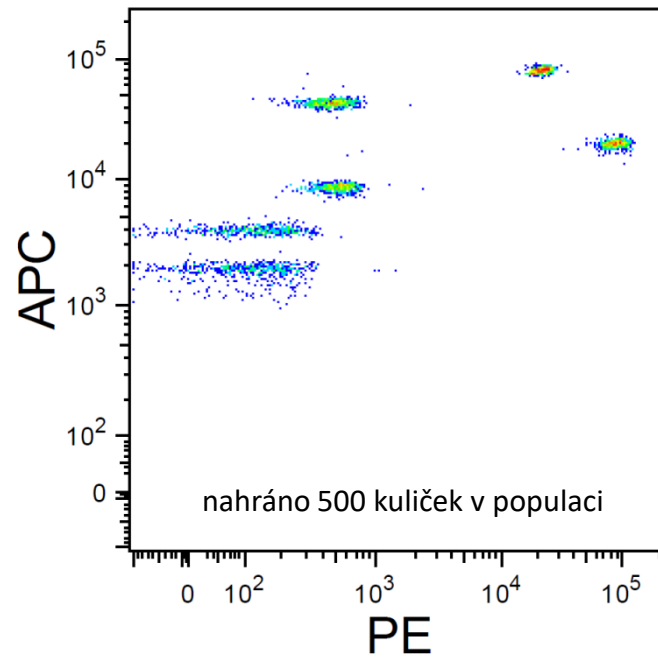
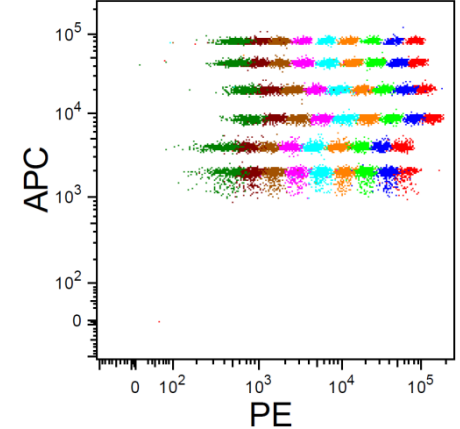
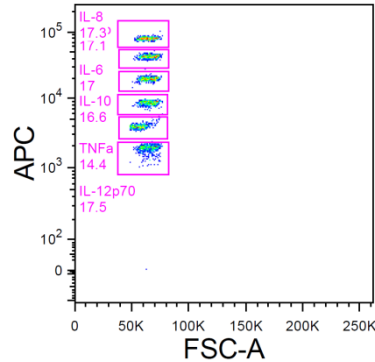
Get Started with xMAP® Technology:

Bead-based Multiplexing of up to 500
Analytes per Sample



9-45 plex pro detekci cytokinů **> 0,5 pg/ml**

Naše zkušenosti

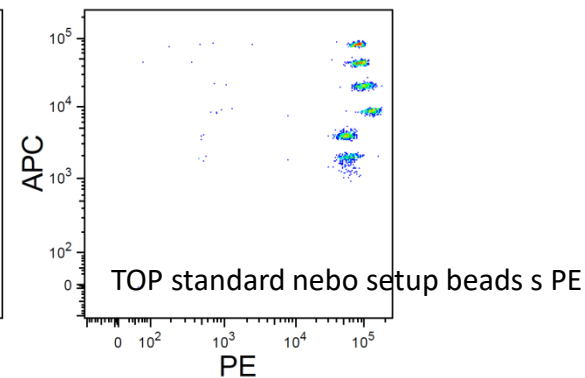
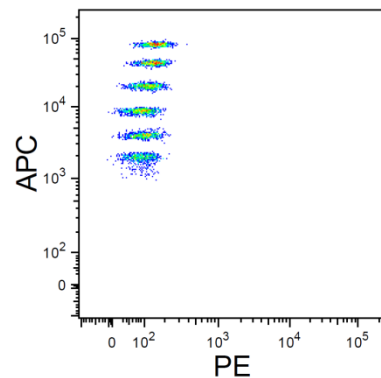
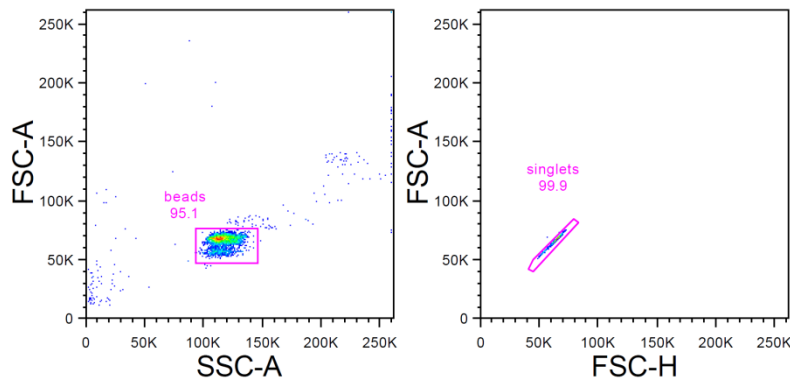


80 testů, FACS zkumavky

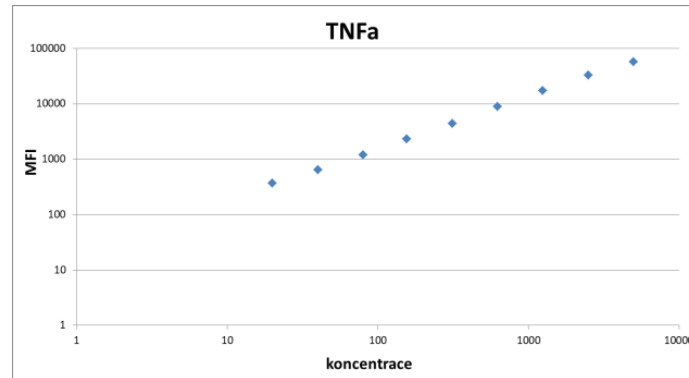
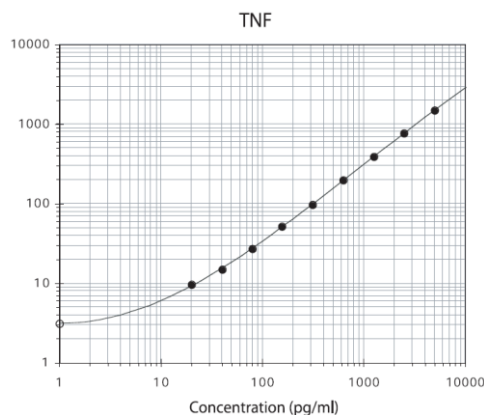
vzorek (TS) + kuličky + PE-protilátka (3h)

Na co si dát pozor?

➤ Dobře nastavit cytometr (*setup beads*)



➤ Zjistit, ve kterém rozmezí standardů lze kvantifikovat



➤ Vzorky na měření (plazma, sérum, supernatant) dobře skladovat (-20°C, lépe -80°C)

Nerozmrazovat/zamrazovat více než 1x

Neskladovat (ani v -80°C příliš dlouho x roky)

➤ Plazmy před skladováním neředit (*na Ficollu lze izolovat PBMC i bez ředění krve*)

Imunologické bulvární okénko



International Journal of
Molecular Sciences



Article

Induction of a Regulatory Phenotype in CD3+ CD4+ HLA-DR+ T Cells after Allogeneic Mixed Lymphocyte Culture; Indications of Both Contact-Dependent and -Independent Activation

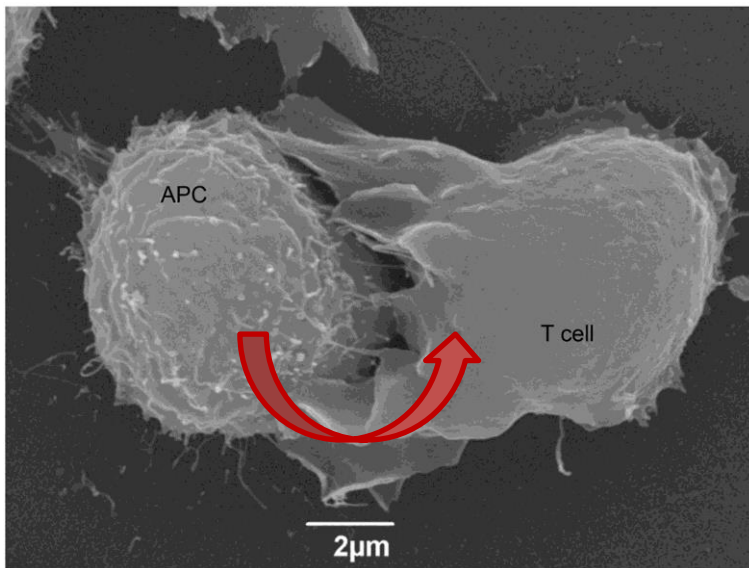
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- Částečná endogenní exprese MHCII v T-lymfocytech
- Vesicle-mediated transfer
- Trogocytóza