

# Product Datasheet

## Th1/Th2/Th17 Cytokines Bead-Based 11-Plex Flow Cytometry Kit NBP3-45136

Unit Size: 1 Kit

Storage of components varies. See protocol for specific instructions.

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**NBP3-45136****Th1/Th2/Th17 Cytokines Bead-Based 11-Plex Flow Cytometry Kit**

<b>Product Information</b>	
<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Storage of components varies. See protocol for specific instructions.
<b>Conjugate</b>	PE
<b>Product Description</b>	
<b>Description</b>	<p>This kit utilizes antibodies-conjugated beads which are different in size and mean fluorescent intensity of labeling dye to capture antigens in sample. After capture beads and sample incubation, biotin-conjugated detection antibodies are added to react with antigen-beads complexes, followed by a streptavidin-R-phycoerythrin (SA-PE) treatment. The fluorescent intensity of PE on each bead populations is quantified by flow cytometer with either a single 488nm laser or dual 488nm and 633/640nm lasers. The maximum emission of the bead classification dye is at 700nm. The concentrations of protein interested are determined by comparing the fluorescent intensities to those of standard curve, like sandwich ELISA data analysis.</p> <p><b>Assay Length: 3 h</b></p> <p><b>Excitation/Emission (nm): 575/495,565</b></p> <p><b>UniProt</b>            TNF-beta: P01374            TNF-alpha: P01375            IL-1 beta: P01584            IL-2: P60568            IFN-gamma: P01579            IL-12p70: P29459 &amp; P29460            IL-4: P05112            IL-5: P05113            IL-6: P05231            IL-17A: Q16552            IL-10: P22301</p>
<b>Species</b>	Human
<b>Reactivity Notes</b>	Cross-reactivity of analytes in the Panel: Negligible
<b>Specificity/Sensitivity</b>	This kit is for detection of IFN-gamma, IL-1 beta, IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-17A, TNF-alpha and TNF-beta in human serum, plasma, biological fluid and cell culture supernatant.
<b>Kit Components</b>	1 x Premixed Antibody-Conjugated Beads, 2 x Premixed Biotinylated Detection Antibodies, 2 x Detection Antibody Diluent, Lyophilized Antigen Standard, 1 x SA-PE, 10 x Reading Buffer, 10 x Wash Buffer, SPB Standard Diluent, SPB Assay Buffer, Plate Sealer, Manual

<b>Sensitivity</b>	TNF-beta < 5pg/mL TNF-alpha < 1pg/mL IL-1 beta < 5pg/mL IL-2 < 3pg/mL IFN-gamma < 3pg/mL IL-12p70 < 3pg/mL IL-4 < 1pg/mL IL-5 < 2pg/mL IL-6 < 5pg/mL IL-17A < 3pg/mL IL-10 < 2pg/mL
<b>Inter Assay</b>	%CV < 20
<b>Intra Assay</b>	%CV < 10
<b>Assay Type</b>	Multi-Plex detection combination
<b>Spiking Recovery</b>	70 - 130%
<b>Suitable Sample Type</b>	Serum, plasma, bodily fluid, cell culture supernatant
<b>Sample Volume</b>	15 uL

### Product Application Details

<b>Applications</b>	Flow Cytometry
<b>Recommended Dilutions</b>	Flow Cytometry





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

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