

BD CBA Human Immunoglobulin Flex Set System

Multiplexed, sensitive detection of soluble immunoglobulins

Features

- Generates more data from a single sample
- Provides multiple results from a single experiment
- Improves cost efficiency since assays are configured for flexibility in experiment design
- Reduces hands-on time with fewer sample dilutions
- Works with flow cytometers equipped with 488-nm and 633-nm lasers

BD™ Cytometric Bead Array (CBA) Human Immunoglobulin Flex Set assays enhance research productivity by providing a complete system of ready-to-use reagents that serve as building blocks of user-defined multiplex experiments, resulting in more data per sample in less time.

The BD CBA Human Immunoglobulin Flex Set system is a flexible multiple analyte (multiplex) assay system for simultaneously analyzing multiple immunoglobulin (Ig) subclasses in a single, small-volume sample. Each suspended bead provides an efficient capture surface for a specific Ig subclass and is analogous to an individually coated well in an ELISA plate.

Fewer steps and reduced time to results

The combined advantages of the broad dynamic range of fluorescence detection via flow cytometry, the ability to distinguish particles based on size and fluorescence intensity, and the efficient capture of multiple analytes via suspended particles enable the BD CBA Flex Set system to use fewer sample dilutions and to obtain a quantitative result for an unknown in substantially less time than with conventional ELISA.

Easy and economical

BD CBA Human Immunoglobulin Flex Set assays share a simple common protocol. A master buffer works for all individual assays (total IgG, IgG₁, IgG₂, IgG₃, IgG₄, IgM, and IgA). The reagents are packaged separately to provide flexibility in experiment design with no reagent waste so you get the most out of your research budget.

= Can be multiplexed
 = Not compatible

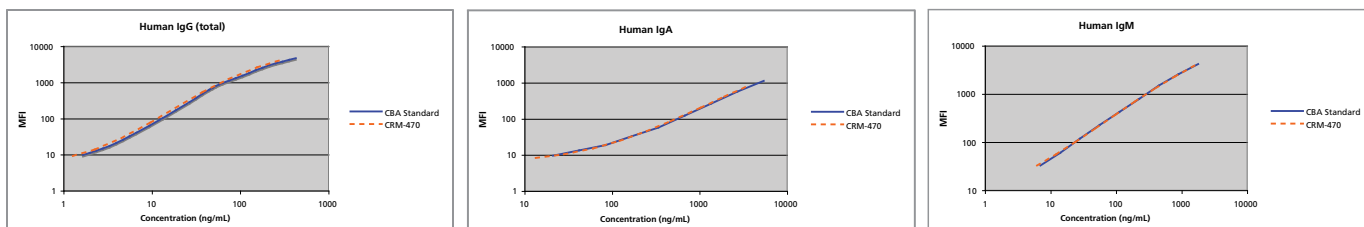
	IgA	IgG (total)	IgG ₁	IgG ₂	IgG ₃	IgG ₄	IgM
IgA							
IgG (total)							
IgG ₁							
IgG ₂							
IgG ₃							
IgG ₄							
IgM							

While the BD CBA Human Immunoglobulin Flex Set system is capable of simultaneous quantitation of multiple analytes, some incompatibilities exist due to the required dilution ranges for some of the more abundant Ig subclasses (ie, total IgG and IgG₁).

BD CBA Human Immunoglobulin Flex Set System

References

- Schauer U, Stemberg F, Rieger CH, et al. IgG subclass concentrations in certified reference material 470 and reference values for children and adults determined with the binding site reagents. *Clin Chem*. 2003;49:1924-1929.
- Baudner S, Bienvenu J, Blirup-Jensen S, et al. The certification of a matrix reference material for immunochemical measurement of 14 human serum proteins CRM 470. 2003. Report: EUR 15243 EN. Brussels, Belgium: Community Bureau of References (BCR) of the Commission of the European Communities.



Accurate quantitative results. The CRM-470 reference serum was established to provide a reference to standardize assays that quantitate human Ig.^{1,2} A comparison of BD Human Immunoglobulin Flex Set controls and the CRM-470 reference standard analyzed using the BD CBA Human Immunoglobulin Flex Set system resulted in parallel curves, suggesting a strong correlation of quantitation between the Flex Set controls and CRM-470.

Ordering Information

BD Cytometric Bead Array (CBA) Human Immunoglobulin Flex Sets

Description	Assay Range (ng/mL)	Size/Unit	Cat. No.
Human IgG1 Flex Set (Bead C4)	1.6–410	100 tests	558675
Human IgG2 Flex Set (Bead C5)	13.3–3,400	100 tests	558676
Human IgG3 Flex Set (Bead C6)	4.5–1,150	100 tests	558677
Human IgG4 Flex Set (Bead C7)	1.6–400	100 tests	558678
Human Total IgG Flex Set (Bead C6)	1.7–430	100 tests	558679
Human IgM Flex Set (Bead C8)	3.6–910	100 tests	558680
Human IgA Flex Set (Bead C9)	10.7–2,730	100 tests	558681
Human Immunoglobulin Master Buffer Kit	N/A	100 tests	558683
FCAP Array™ Software v1.0.1	N/A	N/A	641488

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