

# MultiCyt QBeads PlexScreen

No-wash multiplexed secreted protein screening

MultiCyt<sup>®</sup> QBeads<sup>™</sup> PlexScreen is a family of reagents that use immunochemistry to capture specific secreted proteins on discrete bead subpopulations, and are assembled into complete custom kits. These kits enable multiplexed quantitation of cytokines, adhesion molecules, enzymes, growth factors, and receptors from human, mouse, and rat sources. In combination with the iQue Screener and ForeCyt software, QBeads provides an integrated screening solution that is especially applicable to therapeutic areas like immunology, toxicology, and oncology.

Currently available methods to analyze secreted proteins suffer from limited multiplexing capabilities, low throughput, and complex wash protocols. QBeads address these shortcomings at a price compatible with screening.

- No-wash protocol
- Cost-effective low-volume assays
- 20 minutes per 384-well plate
- 1 to 30 plex

## QBeads are fast

Typical read time for a 384-well plate of QBeads is 20 minutes. Compare this to more than 60 minutes for all other commercialized bead assays. QBeads read at the same fast rate too, regardless of your plex size.

## QBeads are economical

The typical read volume of only 1  $\mu$ L allows for smaller assay volumes than any other bead-based screening method, which lends itself to the use of higher density microplates, and the flexibility to re-read wells for confirmation of unexpected results.

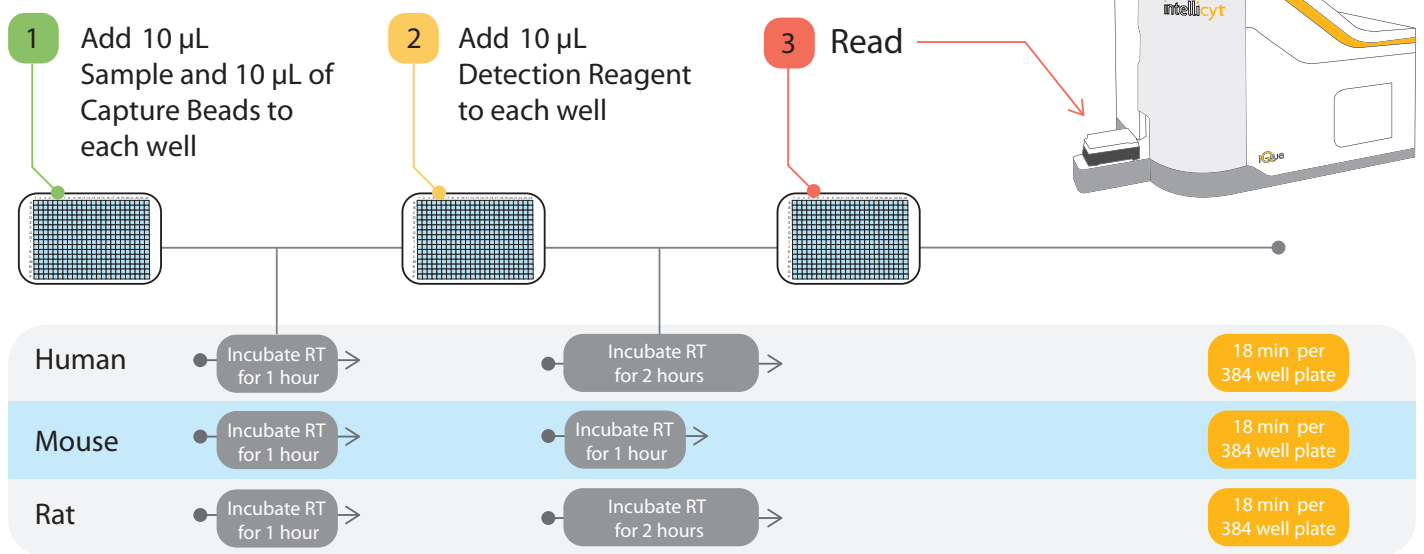
## QBeads are multiplexable

Capture, measure and quantitate up to 30 analytes in a single well. Do you want to measure more than 30 analytes? Treat a single plate, transfer a portion of your supernatants to two assay plates, and add different QBeads to either plate.

## QBeads assays are easy

Screening with this integrated solution uniquely allows for a no-wash protocol, greatly accelerating the screening rate and productivity of your lab. The simple "Add, Add, Read" screening protocol is exquisitely simple. Even the single wash protocol, which maximizes sensitivity, is simpler than any competitive option.

## QBeads No-Wash Screening Workflow



## Building a custom QBeads kit is easy too

Our web-based Assay Builder allows you to select precisely the analytes you want to detect, chosen from the list provided below. It also informs you of any conflicts your selection may incur, and lets you select a kit size to fit your screening need. Get real-time pricing while you build your kit. Contact your sales representative for special discounted bulk pricing.

## Human Secreted Protein Panel

Cytokine			
Chemokine	TNF	Interleukin	
CCL2 (MCP-1)	sCD154 (sCD40 Ligand)	IL-1 $\alpha$	IL-10
CCL3 (MIP-1 $\alpha$ )	CD178 (Fas Ligand)	IL-1 $\beta$	IL-11
CCL4 (MIP-1 $\beta$ )	TNF (TNF $\alpha$ )	IL-2	IL-12/IL-23 (p40)
CCL5 (RANTES)	TNFB (LT- $\alpha$ , TNFSF1)	IL-3	IL-12 (p70)
CCL11 (Eotaxin)		IL-4	IL-13
CD14		IL-5	IL-17A
CXCL9 (MIG)		IL-6	IL-17F
CXCL10 (IP-10)		IL-7	IL-21
CXCL11 (I-TAC)		IL-8	IFN- $\alpha$
CX3CL1 (Fractalkine)		IL-9	IFN- $\gamma$

Receptor	Adhesion Molecule	Growth Factor	Enzyme
CD121a (IL-1 RI)	CD54 (ICAM-1)	Angiogenin	Granzyme A
CD121b (IL-1 RII)	CD62E (E-Selectin)	Basic FGF	Granzyme B
TNFR I	CD62L (L-Selectin)	CSF2 (GM-CSF)	
TNFR II	CD62P (P-Selectin)	CSF3 (G-CSF)	
	CD106 (VCAM-1)	VEGF	

## Mouse Secreted Protein Panel

Cytokine			
Chemokine	TNF	Interleukin	
CCL2 (MCP-1)	TNF (TNF $\alpha$ )	IL-1 $\alpha$	IL-12/IL-23 (p40)
CCL3 (MIP-1 $\alpha$ )		IL-1 $\beta$	IL-12 (p70)
CCL4 (MIP-1 $\beta$ )		IL-2	IL-13
CCL5 (RANTES)		IL-3	IL-17A
CXCL1 (KC;GRO $\alpha$ )		IL-4	IL-17F
CXCL9 (MIG)		IL-5	IL-21
		IL-6	IL-23 (p19/p40)
		IL-9	IFN- $\gamma$
		IL-10	

Other	
Growth Factor	Adhesion Molecule
CSF2 (GM-CSF)	CD62E (E-selectin)
CSF3 (G-CSF)	CD62L (L-selectin)

## Rat Secreted Protein Panel

Cytokine	
Interleukin	TNF
IL-1 $\alpha$	TNF (TNF $\alpha$ )
IL-2	
IL-4	
IL-10	
IFN- $\gamma$	

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