

Caution: For Laboratory Use. A research reagent for research purposes only

## IgG (Protein A based) Detection Kit

**Product No.:** 6760617C/M/R

**Lot No.:** 678-333-A

### Material Provided

<b>Format:</b>	6760617C	500 Assay Points
	6760617M	10000 Assay Points
	6760617R	50000 Assay Points

Note: The number of assay points is based on a final bead concentration of 20 µg/mL in a 25 µL/well reaction volume.

**Manufacturing Date:** August 16, 2011

### Kit Components:

Component	6760617C	6760617M	6760617R
<b>Protein A Acceptor Beads at 5 mg/mL in 0.1M Tris, 0.05% Proclin-300, pH 8.0</b>	1 x 50 µL (6760136)	1 x 1 mL (6760137)	1 x 5 mL (6760137B)
<b>Streptavidin Donor Beads at 5 mg/mL in 0.1M Tris, 0.05% Proclin-300, pH 8.0</b>	1 x 50 µL (6760007)	1 x 1 mL (6760008)	1 x 5 mL (6760008B)
<b>Biotinylated-rIgG at 0.05 µM in 1X PBS, 0.1% BSA, 0.05% Proclin-300, pH 7.2</b>	1 x 50 µL (6760264)	1 x 50 µL (6760264)	1 x 50 µL (6760264)
<b>10x Buffer : 1M Tris, 0.1% Tween-20, 0.05% Proclin-300, pH 8.0</b>	1 x 1.5 mL (6760028G)	1 x 1.5 mL (6760028G)	1 x 1.5 mL (6760028G)

### Product Information

**Antibody/Protein:** The Protein A acceptor beads are coated with Protein A. Protein A binds the Fc region of many IgG.

**Stability:** This product is stable for at least **9 months** from the manufacturing date if used and stored under recommended conditions.

**Storage Conditions:** Store undiluted at 4°C protected from light. Freeze-thaw is not recommended and can cause the beads to form aggregates.

**Recommended use:** **AlphaScreen® donor beads are light sensitive** and should be handled under subdued or green filtered light conditions (< 100 Lux). Vortex beads prior to use.

For additional information on running AlphaScreen® assays or on potential interfering compounds, please visit our website: [www.perkinelmer.com/AlphaTech](http://www.perkinelmer.com/AlphaTech)

## Quality Control

AlphaScreen® maximum signal, minimum signal and EC<sub>50</sub> are determined using a biotinylated-rIgG titration assay performed on an EnVision® HTS Alpha detection instrument. We certify that these results meet our requirements.

<u>TEST</u>	<u>RESULTS</u>
Maximum signal	804 996 cps
Minimum signal	412 cps
EC <sub>50</sub>	0.036 nM

## Recommended Assay Conditions

Note: This protocol provides a method to verify kit performance and is not representative of an assay. Sufficient biotinylated-probe and 10x buffer is provided to perform 3 titration curves in triplicate as described.

- 1x Buffer:** Add 500 µL 10x buffer to 4.5 mL Milli-Q® H<sub>2</sub>O (or equivalent). Add 5 mg BSA (0.1% final concentration) and adjust pH to 8.0.
- Acceptor Beads:** Add 5 µL Protein A Acceptor beads to 245 µL 1x buffer.
- Donor beads:** Add 5 µL Streptavidin Donor beads to 245 µL 1x buffer.
- Biotinylated-probe:** From the 0.05 µM biotinylated-rIgG, prepare a ½ log dilution series (15 nM to 1.5 pM) in 1x buffer. Include a buffer only control.

### Titration Protocol:

To a white opaque 384-well Optiplate:

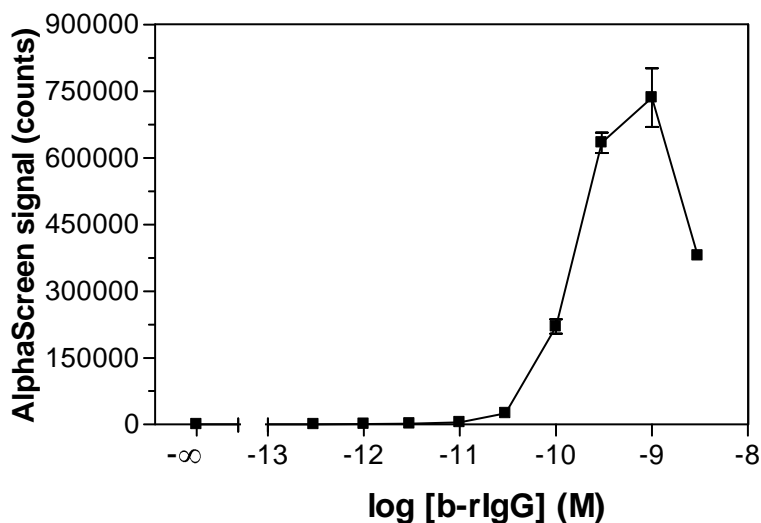
- 1- Add 5 µL biotinylated-rIgG dilutions (from lowest to highest concentration).
- 2- Add 10 µL of 1x buffer
- 3- Add 5 µL of Protein A Acceptor beads.

Incubate in the dark at room temperature for 30 minutes.

- 4- Add 5 µL of Streptavidin Donor beads.

Incubate in the dark at room temperature for 60 minutes and analyze on your AlphaScreen® detection reader.

## Product Typical Data



**Figure 1: Biotinylated-probe titration assay**  
384-well biotinylated-rlgG titration curve (25  $\mu$ L final volume; Reader: Envision HTS Alpha).

**Note:** AlphaScreen signal will vary depending on instrument detection protocol, incubation temperature and incubation time.

## Suggested Materials and Instrumentation

Please visit our website

[www.perkinelmer.com/AlphaTech](http://www.perkinelmer.com/AlphaTech)

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PerkinElmer, Inc.  
940 Winter Street  
Waltham, MA 02451 USA  
P: (800) 762-4000 or  
(+1) 203-925-4602  
[www.perkinelmer.com](http://www.perkinelmer.com)



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