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dynamic BIOSENSORS HK-FC-3 FC Capture A/G Kit



dynamic BIOSENSORS HK-FC-3 FC Capture A/G Kit User Manual

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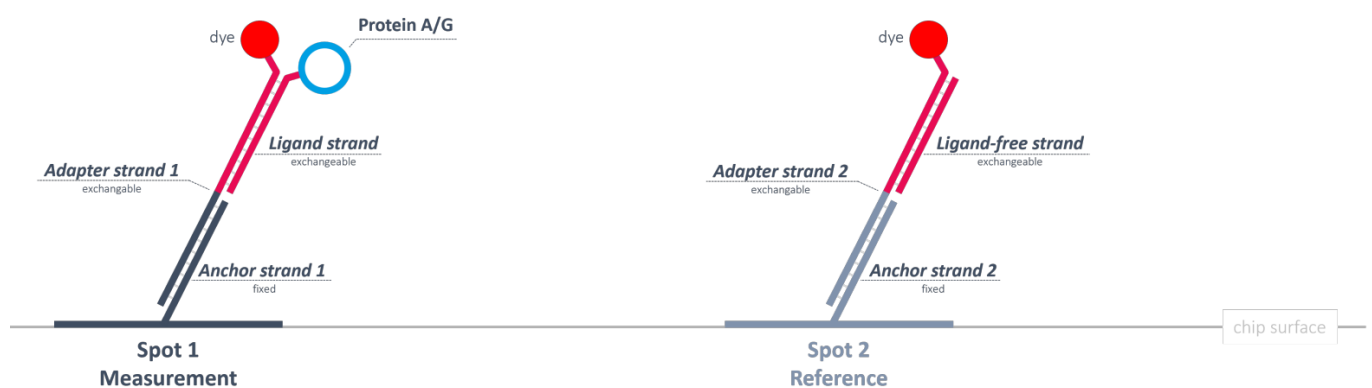
dynamic BIOSENSORS HK-FC-3 FC Capture A/G Kit



Key Features

- This kit is designed for the capture of IgG molecules binding to Protein A and G.
- Compatible with heliX Adapter Chip.
- Includes Adapter strands and Ligand strands modified with Protein A/G for 20 regenerations.
- For functionalization of Spot 1 and Spot 2.
- Adapter strands 1 and 2 carry a moderately hydrophilic red dye (Ra) with a single positive net charge.

Helix Adapter Chip Overview



- 2 spots with 2 different anchor sequences for DNA-encoded addressing.
- Spot 1 is functionalized with the capture molecule while Spot 2 is used as real-time reference.

Product Description

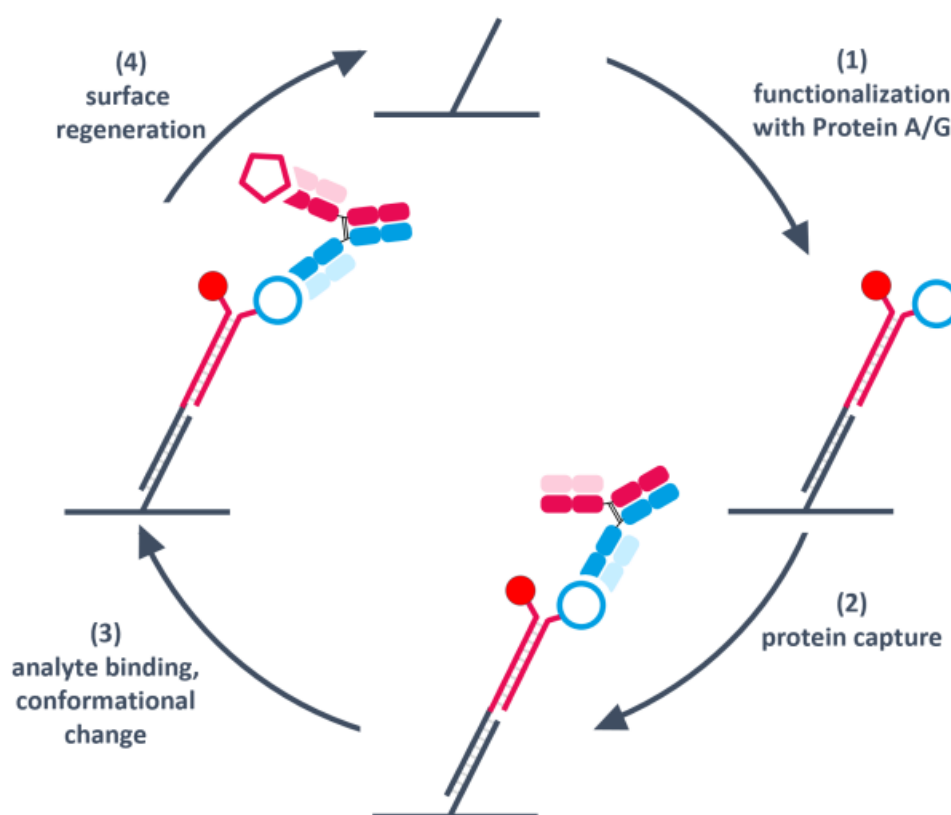
Order Number: HK-FC-3

Table 1. Contents and Storage Information

Material	Cap	Concentration	Amount	Buffer	Storage
Protein A/G - Ligand strand	Red	500 nM	2 x 100 µL	TE40 ^[1]	2-8°C
Adapter strand 1 - Ra	Black	400 nM	2 x 100 µL	TE40 ^[1]	-20°C
Adapter strand 2 - Ra - lfs	White	200/250 nM	2 x 200 µL	TE40 ^[1]	-20°C

For research use only. This product has a limited shelf life, please see the expiry date on the label. After the preparation of the ready-to-use solution, the expiry date is 6 months. Protein A/G binds to all IgG subclasses from various mammalian species, including all IgGs that bind to both Protein A and Protein G.

Workflow of a heliX FC – -capture assay



1. The anchor strand (ssDNA) immobilized to the surface of the heliX Adapter Chip is hybridized with complementary DNA strands modified with Protein A/G.
2. The IgG of interest is captured on the surface during the measurement run.
3. Measurement of the analyte binding kinetics.
4. Surface regeneration by injection of a high pH solution. The chip surface goes back to its original state. This step can be followed by a new hybridization of fresh ligands with Protein A/G.

Preparation

1. Mix 100 µL Protein A/G – Ligand strand with 100 µL Adapter strand 1 – Ra.
2. Incubate the solution of step 1 at RT at 600 rpm for 30 min to ensure complete hybridization.

3. Mix 200 µL Adapter strand 2 – Ra – lfs to the sample after step 2.
4. The solution (400 µL in total) is ready to use for biochip functionalization.
5. Please aliquot and store the ready-to-use solution at 2-8°C. Use up within 6 months.
6. The kit contains material for the preparation of two separate ready-to-use solutions with 400 µL each.

Assay Setup in heliOS

Go to heliOS > create a New Assay Workflow > add Custom Assay > load Capture with Kinetics > modify the parameters based on your needs and run the assay. Suggested assay parameters (e.g., flow rate, time, LED power, etc.) are within the heliOS assay.

TIP If the fluorescent change signal upon analyte binding is very small, consider using the conjugation approach, to move the binding site closer to the dye. For further questions, please contact the support team at

support@dynamic-biosensors.com

Useful Order Numbers

Table 2. Order Numbers

Product Name	Comment	Order No
heliX® Adapter Chip	Chip with 2 detection spots	ADP-48-2-0
10x Passivation solution	For passivation of chip surface	SOL-PAS-1-5
Regeneration solution	For regeneration of chip surface	SOL-REG-1-5

Contact

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Instruments and chips are engineered and manufactured in Germany.
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Documents / Resources

	<p>dynamic BIOSENSORS HK-FC-3 FC Capture A/G Kit [pdf] User Manual HK-FC-3 v4.1, HK-FC-3 FC Capture A G Kit, HK-FC-3, FC Capture A G Kit, Capture A G Kit, A G Kit, Kit</p>
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References

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