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1. Description

This product is for research use only.

Components	100 µL monoclonal GFP VHH Antibody, pI 7.7, pure
Clone	VHH100
Host/isotype	Alpaca VHH
Size	The unconjugated (pure) antibody is supplied at a concentration of 1 mg/mL (corresponding to 100 µg protein).
Expression system	<i>E.coli</i>
Isoelectric point	pI 7.7
Affinity (K_D)	0.94 nM
Modification	C-terminal cysteine (causes dimerization of VHH antibodies upon production) suitable for bioconjugation via thiol-maleimide reaction chemistry
Product format	Reagents are supplied in buffer without sodium azide.
Storage	Store protected from light at +2 to +8 °C. Do not freeze. The expiration date is indicated on the vial label.

1.1 Background information

The GFP VHH Antibody, pI 7.7, pure is a single domain camelid-derived VHH antibody, also called nanobody, optimized for focal molography applications on the MACS® Matchmaker platform. The C-terminal cysteine modification of the VHH antibody allows a convenient conjugation to maleimide-functionalized oligonucleotides via the thiol (-SH) group. The conjugated GFP VHH antibody can subsequently be immobilized on a biosensor chip to detect binding kinetics and affinity to GFP proteins in focal molography applications.

1.2 Applications

- Detection and determination of binding kinetics and affinity to GFP protein in crude media samples, such as serum, plasma, cell culture supernatant, cell lysates, etc. by focal molography (biomolecular interaction analysis).

1.3 Reagent and instrument requirements

- MACS Matchmaker (# 130-137-359) for the detection of binding kinetics and affinity in focal molography applications

2. Protocol

▲ Refer to the user manual for instructions on how to use the MACS Matchmaker and information for the immobilization of proteins to the biosensor surface via DNA-directed immobilization (DDI).

Refer to www.miltenyibiotec.com for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com for local Miltenyi Biotec Technical Support contact information.

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