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1. Description

This product is for research use only.

Components	100 µL monoclonal Control VHH Antibody, pI 7.2, pure
Clone	VHH101
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 7.2
Affinity (K_D)	not applicable
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 Control VHH Antibody, pI 7.2, pure is a single domain camelid-derived VHH antibody, also called nanobody, optimized for focal molography applications on the MACS® Matchmaker platform. This control antibody has been designed to not bind any proteins but rather serve as a non-binding control for focal molography experiments using other specific VHH antibodies in parallel. The C-terminal cysteine modification of the VHH antibody allows a convenient conjugation to maleimide-functionalized oligonucleotides via the thiol (-SH) group. The conjugated Control VHH antibody can subsequently be immobilized on a biosensor chip for focal molography experiments, specifically for the backfilling step in combination with any specific VHH antibody.

1.2 Applications

- Control for an experimental setup where a target protein is measured in crude media samples 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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