

Anti-Marburg virus nucleoprotein [sdAb 4] Standard Size Ab01237-1.9

This chimeric mouse antibody was made using a variable domain sequence of the original VHH format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1-Fc fusion, His-Tagged

Clone Number: sdAb 4

Alternative Name(s) of Target: Marburg virus NP

UniProt Accession Number of Target Protein:

Published Application(s): cross-linking, crystallography, ELISA

Published Species Reactivity: Marburg virus (MARV)

Immunogen: An unbiased phage display library was generated by extracting RNA from llama blood samples. Phage-display with the MARV-Mus strain was used to select sdAb B from the phage library.

Specificity: sdAb B is specific for MARV-Mus, -Rav, and -Ang strains of the MARV virus but shows no cross-reactivity with representative strains of the 4 EBOV species. The antibody recognises NP, a critical viral structural protein that envelopes the RNA genome.

Application Notes: ELISA was used to establish the specificity of sdAb B for MARV virus strains (Sherwood et al, 2007). sdAb has been crystallised with its antigen NP (Garza et al, 2017). Cross-linking dimeric sdAb to NP restricted viral packaging (Darling et al, 2017).

Antibody First Published in: Goldman et al, 2006. Facile generation of heat-stable antiviral and antitoxin single domain antibodies from a semisynthetic llama library. Anal Chem. 2006 Dec 15;78(24):8245-55.

[PMID:17165813](#)

Note on publication: Describes the generation of the phage display library.

Product Form

Size: 200 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration:

1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.