

Anti-Vesicular stomatitis virus nucleoprotein N [VHH-1004] Standard Size Ab01244-1.9

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: VHH-1004

Alternative Name(s) of Target: VSV NP N

UniProt Accession Number of Target Protein:

Published Application(s): LUMIER assays, transcription assays, FC

Published Species Reactivity: Vesicular stomatitis virus (VSV)

Immunogen: The VHH was generated by immunising alpacas with inactivated vesicular stomatitis virus and extracting RNA from peripheral blood lymphocytes. From the extracted RNA a lentiviral plasmid VHH library was established and A549 cells transduced with lentiviral particles. The transduced A549 cells were then subject to lethal doses of VSV virus, and VHH-1004 was identified from this virus challenge.

Specificity:

Application Notes: FC was used to confirm VHH-1004 prevents VSV infection of transformed A459 cells (Schmidt et al, 2016). LUMIER assays identified the antigenic target of VHH-1004 as VSV nucleoprotein N. Transcription assays showed that VHH-1004 prevents viral gene expression by blocking mRNA transcription (Schmidt et al, 2016). X-ray crystallography has captured the VHH-1004:Nucleoprotein N complex (Hanke et al, 2017).

Antibody First Published in: Schmidt et al, 2016. Phenotypic lentivirus screens to identify functional single domain antibodies Nat Microbiol. 2016 Jun 20;1(8):16080 [PMID:27573105](#)

Note on publication: Describes the isolation of VHH-1004 from a lentivirus library and its characterisation through flow cytometry, LUMIER assays, and transcription assays.

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.