

Anti-non-structural protein 4 [Nb43] Standard Size Ab03514-23.159

Isotype and Format: Rabbit IgG-Fc fusion

Clone Number: Nb43

Alternative Name(s) of Target: NSP4; Replicase polyprotein 1ab; ORF1ab polyprotein

UniProt Accession Number of Target Protein: Q9YN02

Published Application(s): in vitro, ELISA

Published Species Reactivity: Porcine reproductive and respiratory syndrome virus

Immunogen: An adult male Bactrian camel was immunized subcutaneously with the purified Nsp4-NHis recombinant protein. A camel VHH library was then constructed and panned against Nsp4.

Specificity: The antibody is specific for Nsp4.

Application Notes: The specificity of the original format of the antibody was confirmed by indirect ELISA analysis. MARC-145 cell lines expressing nanobodies were generated and infected with PRRSV strain SD16. At 24 h post-infection the antibody inhibited infectious virus release by about 99%. Further, the antibody protected MARC-145 cells from any virus-induced cytopathic effect and fully blocked PRRSV replication (Liu et al. 2016; PMID: 27010387).

Antibody First Published in: Liu et al. Intracellularly expressed nanobodies against non-structural protein 4 of porcine reproductive and respiratory syndrome virus inhibit virus replication *Biotechnol Lett.* 2016 Jul;38(7):1081-8. [PMID:27010387](#)

Note on publication: The original paper describes the generation and characterization of a set of antibodies by phage display method.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

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.