Anti-non-structural protein 4 [Nb43] Bulk Size Ab03514-1.159-BT

Isotype and Format: Mouse IgG1-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: 500 µg Purified antibody in bulk size.
Purification: Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4ºC for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.
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.