



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-nucleocapsid (N) protein [Nb1] Standard Size Ab03028-1.159

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

**Isotype and Format:** Mouse IgG1-Fc fusion

**Clone Number:** Nb1

**Alternative Name(s) of Target:** NC; N Protein; Nucleoprotein; Nucleocapsid protein;

**UniProt Accession Number of Target Protein:** Q07499

**Published Application(s):** ELISA

**Published Species Reactivity:** Porcine epidemic diarrhea virus

**Immunogen:** The antibody was generated by immunizing a Bactrian camel with recombinant PEDV N protein followed by antibody library construction and phage display-based selection.

**Specificity:** The antibody binds the N protein of PEDV, which is associated with viral replication, transcription and assembly.

**Application Notes:** The specificity of this antibody (VHH) was confirmed by ELISA analysis. Langmuir model and sensorgrams data were used for kinetic analysis of PEDV N protein and Nb1. The  $K_a$  value measured was  $1.97 \times 10^5 \text{ M}^{-1} \text{ s}^{-1}$ , indicating a fast association constant. The  $K_a/K_d$  value, the equilibrium dissociation constant between Nb1 and PEDV N protein, reached up to  $0.96 \times 10^8 \text{ M}$  (Ma et al, 2019; pmid:31526383).

**Antibody First Published in:** Ma et al. A novel biotinylated nanobody-based blocking ELISA for the rapid and sensitive clinical detection of porcine epidemic diarrhea virus J Nanobiotechnology. 2019 Sep 16;17(1):96. [PMID:31526383](#)

**Note on publication:** The paper describes the generation and characterization of the antibody.

## 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.