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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)

Anti-spike protein [TZZ19] Standard Size Ab03447-30.11

This is an scFv fragment with a His tag.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: TZZ19

Alternative Name(s) of Target: TGEV; Spike glycoprotein; S glycoprotein; E2; Peplomer protein

UniProt Accession Number of Target Protein: P07946

Published Application(s): in vitro, WB, ELISA, IF

Published Species Reactivity: Transmissible gastroenteritis virus

Immunogen: A scFv antibody phage display library was constructed from peripheral blood lymphocytes of piglets infected with TGEV. The library was screened with four rounds of biopanning using purified TGEV antigen, and scFv antibodies that bound to TGEV were obtained.

Specificity: The antibody is specific for the S protein of TGEV. The antibody does not show any cross-reactivity with other available porcine pathogens, such as PEDV, PRRSV, PCV2.

Application Notes: To determine whether scFv antibody neutralized TGEV infection, a PRN assay was performed. The results showed that the antibody significantly inhibited TGEV infection in a dose-dependent manner and completely neutralized virus replication at a dilution of 1:80. Therefore the antibody showed a neutralization effect on TGEV infection. The specificity of the scFv format of the antibody was confirmed by ELISA analysis. The antibody detected the S protein by western blot analysis. IFA results showed that the antibody bound to ST TGEV-infected cells and to TGEV S protein-transfected cells (Zhang et al., 2019; PMID: 30729994).

Antibody First Published in: Zhang et al. Construction and characterization of porcine single-chain fragment variable antibodies that neutralize transmissible gastroenteritis virus in vitro Arch Virol. 2019 Apr;164(4):983-994. [PMID:30729994](#)

Note on publication: The original paper describes the generation of a panel of antibodies against TGEV.

Product Form

Size: 50 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.