

Anti-Bovine coronavirus [SF-3E4] Standard Size, 200 µg, Ab01155-23.0 View online

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This full-length, chimeric rabbit antibody was made using the variable domain sequences of the original scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa Clone Number: SF-3E4 Alternative Name(s) of Target: BCV **UniProt Accession Number of Target Protein:** Published Application(s): neutralising, WB, ELISA Published Species Reactivity: Bovine coronavirus Immunogen: This antibody was isolated from an immunised bovine scFv phage display library. The antibody repertoire of a Holstein Frisian bull immunized against BCV was amplified, and the antibodyencoding cDNA from isolated peripheral blood mononuclear cells was use **Specificity:** This antibody recognises an epitope in the S1 subunit of the BCV spike protein. **Application Notes:** An scFv version of this antibody exhibits good binding kinetics (Km = 595 pM) and neutralization ability ($\geq 0.24 \ \mu g/ml$) against BCV-V270 in ELISA analysis and neutralisation assays using BCV-V270-infected VERO cell cultures (Fischer, 2017). Western blotting and a competition ELISA with BCV-V270 have shown that this scFv recognises an epitope in the BCV spike protein (Fischer, 2017). In ELISA analysis, this scFv cross-reacts with BCV-L9 and the human coronavirus strain OC43 (Fischer, 2017). This scFv is a potential therapeutic candidate for the treatment of calf diarrhea caused by coronaviruses. Antibody First Published in: Fischer Cytokines and immunoglobulin genetics in neonatal calf diarrhea Doctoral Dissertation, Faculty of Veterinary Medicine, Justus Liebig University Giessen PMID: Note on publication: Describes the original generation of this scFv, and its characterisation in ELISA and WB analysis

Product Form

Size: 200 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, aliguot 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.