



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-VLP of CPV-VP2 [scFv 96] Ab03609-3.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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

**Isotype and Format:** Mouse IgG2b, [Fc Silent™](#) , Lambda

**Clone Number:** scFv 96

**Alternative Name(s) of Target:** Coat protein VP2

**UniProt Accession Number of Target Protein:** P61826

**Published Application(s):** neutralization, ELISA

**Published Species Reactivity:** canine parvovirus

**Immunogen:** This antibody was raised by first immunizing twelve-week old white Leghorn hens intramuscularly with CPV-VLP. A library was then constructed from these chickens and panned against CPV-VLP.

**Specificity:** This antibody is specific for the VP2 for the Canine Parvovirus. VP2 is a capsid protein that self-assembles to form an icosahedral capsid with a T=1 symmetry, about 22 nm in diameter, and consisting of 60 copies of two size variants of the capsid proteins, VP1 and VP2, which differ by the presence of an N-terminal extension in the minor protein VP1. The Canine Parvovirus is a disease mainly affecting dogs with a 91% mortality rate.

**Application Notes:** To analyse the sensitivity of the scFv version of this antibody an ELISA was performed on CPV-VP2. Furthermore, the ability of this antibody to prevent a CPV infection was determined, it showed a decrease of 30% over 72 hours (Ge et al, 2020; pmid:32883344).

**Antibody First Published in:** Ge et al. Canine Parvovirus is diagnosed and neutralized by chicken IgY-scFv generated against the virus capsid protein. Vet Res. 2020; 51: 110. [PMID:32883344](#)

**Note on publication:** Canine parvovirus (CPV) can cause acute and highly contagious bloody enteritis in dog. To obtain antibodies against CPV, hens were immunized with virus-like particles (VLP) of CPV-VP2. The IgY single chain fragment variables (scFv) were generated by T7 phage display system and expressed in E. coli system.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.