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Diagnostik & molekulare Diagnostik



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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-VLP of CPV-VP2 [scFv 96] Standard Size Ab03609-3.3

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: 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.