



# 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-Cap, Capsid protein [3A5] Bulk Size Ab04396-2.3-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 is a reformatted mouse IgG2a Fc Silent™ antibody, based on the original mouse IgG2a format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2a, [Fc Silent™](#), Kappa

**Clone Number:** 3A5

**Alternative Name(s) of Target:** ORF2

**UniProt Accession Number of Target Protein:** O56129; F5A4Z4

**Published Application(s):** in vitro, neutralization, ELISA, IF, IHC

**Published Species Reactivity:** Porcine circovirus 2

**Immunogen:** The original antibody was raised by immunizing a BALB/c mouse with a recombinant capsid protein of PCV2 expressed by a baculovirus vector

**Specificity:** This antibody is specific for the epitopes found at the topmost edges around the 5-fold axes of the PCV2, Cap with each epitope covering 18 amino acids from two adjacent Cap proteins.

**Application Notes:** The original antibody was used for an ELISA on PCV2-positive serum (Huang et al., 2011; PMID:20923690), on PCV2a/LG-infected PK15 cells cultures (Huang et al., 2019; PMID:30863876), and on purified PCV2 (Bian et al., 2021; PMID:34959519). Further this antibody was used for immunohistochemistry on inguinal lymph nodes of PCV2-inoculated pigs (Huang et al., 2016; PMID:27020283) (Huang et al., 2019; PMID:30863876). This antibody was used for a neutralization assay on PCV2a/LG. PCV2a/LG was incubated with this antibody after which the mixture was added to PK15 cells (Huang et al., 2020; PMID:32075932) (Yu et al., 2022; PMID:35945364). This antibody was also used for immunofluorescence to test the absorption of PCV2 to PK15 cells. The structure of the original antibody was determined using cryo-EM (Huang et al., 2020; PMID:32075932). This antibody was used for purification of proteins from PCV2a/LG (Bian et al., 2021; PMID:34959519)

**Antibody First Published in:** Huang et al. Development of a blocking ELISA for detection of serum neutralizing antibodies against porcine circovirus type 2 *J Virol Methods*. 2011 Jan;171(1):26-33.

[PMID:20923690](#)

**Note on publication:** The original paper developed a monoclonal antibody (Mab)-based blocking ELISA for the detection of serum neutralizing antibodies to porcine circovirus type 2 (PCV2).

## 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.