



# 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-VSV-G [M55] Standard Size Ab03913-2.3

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

This 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:** M55

**Alternative Name(s) of Target:** Glycoprotein G; Glycoprotein; G

**UniProt Accession Number of Target Protein:** P0C2X0

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

**Published Species Reactivity:** Vesicular stomatitis Indiana virus

**Immunogen:** The original antibody was generated by immunizing SCID BALB/c mice with vesicular stomatitis virus (VSV).

**Specificity:** This antibody reacts with a defined subsite within the major antigenic site of VSV-G. The exact epitope is not defined.

**Application Notes:** This stable, recombinant single-chain Fv-C<sub>κ</sub> (scFv-C<sub>κ</sub>) antibody fragment was generated by protoplast fusion of J558L myeloma cells with Escherichia coli K803 transformed with an appropriate scFv-C<sub>κ</sub> expression construct. The aptly named M55 scFv-C<sub>κ</sub> expression construct — containing a CDR2 Ser55-to-Arg substitution (T-to-G transition at the third base), found in the V<sub>H</sub> chain of several hypermutated antibodies (VI22, VI43, and VI53) — was derived from the secondary antibody clone VI24. M55 binds a defined subsite within the major antigenic site of VSV-G. However, the exact binding site in the subunit is not defined. M55 binding to VSV-G was measured using solid-phase ELISA. The V<sub>H</sub> Ser55-to-Arg substitution in M55, which is not found in its parental clone VI24, increased monovalent binding by about 10-fold compared with M0 (the germline derived scFv-C<sub>κ</sub>). Furthermore, crosslinking with HRP labeled mouse anti-C<sub>κ</sub> antibodies improved M55 binding 10-fold (Kalinke et al., 2000; PMID: 10963674).

**Antibody First Published in:** Kalinke et al. Virus neutralization by germ-line vs. hypermutated antibodies Proc Natl Acad Sci USA. 2000 Aug 29;97(18):10126-31. doi: 10.1073/pnas.97.18.10126 [PMID:10963674](#)

**Note on publication:** The original publication describes the creation of scFv-C<sub>κ</sub>s (including M55), examines their structure, and evaluates their binding and neutralizing capabilities against VSV-G.

## 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.