



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Anti-VSV-G [M55] Standard Size Ab03913-23.0

**Isotype and Format:** Rabbit IgG, 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-Ck (scFv-Ck) antibody fragment was generated by protoplast fusion of J558L myeloma cells with Escherichia coli K803 transformed with an appropriate scFv-Ck expression construct. The aptly named M55 scFv-Ck expression construct — containing a CDR2 Ser55-to-Arg substitution (T-to-G transition at the third base), found in the VH 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 VH 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-Ck). Furthermore, crosslinking with HRP labeled mouse anti-Ck 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-Cks (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.