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Anti-VSV-G [M55] Bulk Size Ab03913-23.0-BT

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: 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.