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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-viral matrix protein VP40, nucleoprotein [DSTL094] Standard Size Ab03616-10.0

This full-length, chimeric human antibody was made using the variable domain sequences of the original Mouse scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: DSTL094

Alternative Name(s) of Target: Ebola VP40; Membrane-associated protein VP40

UniProt Accession Number of Target Protein: Q05128

Published Application(s): ELISA

Published Species Reactivity: Ebola (Zaire)

Immunogen: Mice were immunized with gamma irradiated inactivated sucrose gradient purified whole Zaire ebolavirus. A phage display library was constructed and panned against inactivated Zaire ebolavirus.

Specificity: This antibody is specific for viral matrix protein VP40 of the zaire ebola virus. Members of the genus Ebolavirus cause fulminating outbreaks of disease in human and non-human primate populations with a mortality rate up to 90%.

Application Notes: A sandwich ELISA was performed on inactivated zaire ebola virus, the scFv version of this antibody was used as the capture antigen, it showed strong binding. Furthermore an ELISA was performed to test the thermal stability of this antibody, the antibody showed no reaction after it was exposed to a temperature to higher than 50 degrees Celsius, it retains 95% activity after 3hours at 40 degrees Celsius (Goodchild et al, 2011; pmid:21752470).

Antibody First Published in: Goodchild et al. Isolation and characterisation of Ebolavirus-specific recombinant antibody fragments from murine and shark immune libraries. Mol Immunol. 2011 Sep;48(15-16):2027-37. [PMID:21752470](#)

Note on publication: In this work recombinant antibody libraries were generated from murine (single chain variable domain fragment; scFv) and nurse shark, *Ginglymostoma cirratum* (IgNAR V) hosts immunised with Zaire ebolavirus. This provides the first recorded IgNAR V response against a particulate antigen in the nurse shark. Both murine scFv and shark IgNAR V libraries were panned by phage display technology to identify useful antibodies for the generation of immunological detection reagents.

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.