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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-G [HENV-26] Bulk Size Ab04491-10.0-BT

Isotype and Format: Human IgG1, Lambda

Clone Number: HENV-26

Alternative Name(s) of Target: RBP; Glycoprotein; Glycoprotein G; Attachment glycoprotein; Receptor binding protein;

UniProt Accession Number of Target Protein: Q9IH62; F4YH71; H6V875; O89343

Published Application(s): flow cytometry, in vivo, neutralization, SPR, X-ray crystallography, ELISA

Published Species Reactivity: Hendra henipavirus, Nipah virus

Immunogen: The original antibody was isolated from an immune human individual.

Specificity: The antibody is specific for RBP of HeV and NiV. The antibody epitope overlaps with the receptor binding sites of RBP.

Application Notes: The specificity of the original format of the antibody for recombinant RBP head domain proteins from HeV, NiVM, or NiVB was confirmed by ELISA analysis ($EC_{50} = 0.14, 0.09$ and 0.07 $\mu\text{g/mL}$ respectively). The antibody could neutralize HeV, NiVB and NiVM in In vitro neutralization assays ($IC_{50} = 0.07, 0.03$ and 0.04 $\mu\text{g/mL}$ respectively). The antibody could bind to the full-length RBPs by flow cytometry. The EC_{50} values for binding of the antibody ranged from 325 to 343 ng/mL for binding to HeV, NiVM, or NiVB. The kinetics of binding of the antibody to RBPs was measured on a biosensor to determine affinity ($KD = 2.9, 2.2,$ or 1.0 nM for HeV, NiVM, or NiVB, respectively). The crystal structures of Fab fragment of the antibody in complex with both HeV-RBP and NiV-RBP were determined. The antibody protected ferrets in lethal models of infection with NiV (Dong et al., 2020; PMID: 33306954).

Antibody First Published in: Dong et al. Potent Henipavirus Neutralization by Antibodies Recognizing Diverse Sites on Hendra and Nipah Virus Receptor Binding Protein Cell. 2020 Dec 10;183(6):1536-1550.e17. doi: 10.1016/j.cell.2020.11.023. PMID:33306954

Note on publication: The original paper describes the generation and characterization of the antibody.

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.