



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-Hendra and Nipah virus F [1F5] Standard Size Ab03842-1.1

**Isotype and Format:** Mouse IgG1, Kappa

**Clone Number:** 1F5

**Alternative Name(s) of Target:** Fusion glycoprotein; Fusion glycoprotein F0; Protein F; F protein; NiV F; HeV F; NiV; HeV

**UniProt Accession Number of Target Protein:** Q9IH63; O89342

**Published Application(s):** functional assay, neutralize

**Published Species Reactivity:** Hendra henipavirus (Hendra virus, HeV), Nipah henipavirus (Nipah virus, NiV)

**Immunogen:** The original antibody was generated by immunizing mice with recombinant soluble constructs obtained from Nipah or Hendra virus.

**Specificity:** This antibody binds a pre-fusion conformational epitope on the F glycoprotein of the Nipah and Hendra virus. The Nipah and Hendra virus are spread by bats.

**Application Notes:** This antibody is reported to broadly neutralize Nipah and Hendra virus by blocking membrane fusion. The cryogenic-electron microscopy (cryo-EM) structures of the antibody in complex with HeV F was determined. Biolayer interferometry was used to characterize the binding of the 1F5 Fab fragments to prefusion NiV F or HeV F ectodomain trimers immobilized on the surface of biosensors. The equilibrium dissociation constants (Kd) of 1.47 and 1.24 nM for attachment of Fab fragments of 1F5 to NiV F or HeV F, respectively. To further characterize this antibody, a kinetic assay was performed on HeV F- or NiV F- or NiV F S69A using the mouse version of this antibody. To analyze the ability of this antibody to prevent and cure disease, a fusion inhibition assay was performed on CHO745 cells transfected with HNV F and G glycoproteins using the mouse IgG version of this antibody. Further a plaque reduction assay was performed NiV-M, NiV-B or HeV using both the human and mouse IgG versions of this antibody. The humanized version of the antibody broadly inhibited NiV-M, NiV-B and HeV with IC50 ranging between 0.2 and 1.3 µg/ml (Dang et al., 2021; PMID:33927387).

**Antibody First Published in:** Dang et al. Broadly neutralizing antibody cocktails targeting Nipah virus and Hendra virus fusion glycoproteins. Nat Struct Mol Biol. 2021 Apr 29. doi: 10.1038/s41594-021-00584-8. [PMID:33927387](#)

**Note on publication:** Two cross-reactive F-specific antibodies, 1F5 and 12B2, that neutralize NiV and HeV through inhibition of membrane fusion are described.

## 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.