

Product Name: Anti-Nipah virus/NiV Fusion glycoprotein Nanobody (DS90)**Catalog #: AMre60142**

For research use only.

Summary

Description	Recombinant antibody
Host	Alpaca
Application	ELISA
Reactivity	Nipah virus (NiV)
Conjugation	Unconjugated
Modification	Unmodified
Isotype	VHH-His
Clonality	Monoclonal
Form	Liquid
Concentration	
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	0.01M PBS, pH 7.4.
Purification	Purified by Nickel column.

Application

Dilution Ratio ELISA 1:5000-1:20000

Molecular Weight

Antigen Information

Gene Name	Fusion glycoprotein F0
Alternative Names	Fusion glycoprotein, Protein F, Fusion glycoprotein F
Gene ID	
SwissProt ID	Q9IH63
Immunogen	

Background

Nipah virus (NiV), a highly pathogenic zoonotic paramyxovirus, mediates host cell entry through the coordinated action of two envelope glycoproteins: the attachment glycoprotein (G), which engages the host cell receptors ephrin-B2 and ephrin-B3, and the fusion glycoprotein (F), which drives membrane fusion following receptor binding. These viral surface proteins, along with

the viral RNA-dependent RNA polymerase (RdRp) complex comprising the nucleoprotein (N), phosphoprotein (P), and large polymerase protein (L), constitute the primary molecular targets for therapeutic intervention and vaccine development. The conserved receptor-binding interface of the G protein and the fusion machinery of the F protein represent particularly attractive targets for neutralizing antibodies and entry inhibitors, while the viral replication machinery offers potential targets for broad-spectrum antiviral compounds targeting paramyxovirus transcription and replication.

Research Area

Microbiology&Infectious Disease