Anti-Nipah virus Glycoprotein G Human Monoclonal Antibody

Introduction

Nipah virus Glycoprotein G (NiV-G) is an essential viral attachment protein on the envelope surface of Nipah virus, with a molecular weight of approximately 70 kDa. It is displayed on the viral envelope and mechanically mediates viral binding to host cells, serving as the 'key' that initiates infection. The core function of NiV-G is to bind the host cell surface receptors ephrin-B2 and ephrin-B3, thereby mediating viral entry into host cells. This binding activity is a prerequisite for Nipah virus to initiate infection in both human and animal hosts.

NiV-G does not work alone. As part of a complex, it acts in concert with the viral fusion protein F to jointly mediate membrane fusion. G protein is responsible for 'grabbing' the receptor, while F protein is responsible for 'pulling the zipper' of membrane fusion, and the two cooperate to complete viral invasion.

This antibody is a mouse-human chimeric IgG, with the variable region derived from mouse, determining antigen specificity, and the constant region derived from human IgG, determining effector function. The product is primarily intended for ELISA applications

Product parameters

Alternative Names	Nipah virus Glycoprotein G, G
Gene ID	-
Gene Name	G
SwissProt ID	AAY43916.1
Host	Human
Reactivity	Nipah virus
Molecular Weight	The predicted MW is ~25/50kDa for reducing condition and 150kDa under Non-reducing condition.
Conjugation	Unconjugated
Ex	-
Em	-
Modification	Unmodified
Clonality	IgG
Isotype	Monoclonal Antibody
Clonality No.	AP-14B7F1
Form	Liquid
Concentration	3 mg/Ml
Carrier	Carrier Not Free

Immunogen	Recombinant Nipah virus G protein
Purification	Affinity Purified
Buffer System	Liquid in PBS, pH7.4
Application	ELISA
Dilution Ratio	ELISA (Diluted to 1 mg/mL, then 1:5,000–1:100,00)
Research Field	Infectious Diseases
Product Categories	Primary antibody
Shipping	Blue ice
Storage	-20°C
Expiration Date	12 months
Note	Please avoid freeze-thaw cycles.

Protocol

Configure the product according to the application range and recommended dilution ratio.

***Note:** The primary antibody dilution buffer options: WB - Primary Antibody Dilution Buffer (Cat. #: K1200, Not for HRP/AP conjugated antibodies), Immunostaining - Immunol Staining Primary Antibody Dilution Solution (Cat. #: K4655).

Note

1. This product is for scientific research use only.

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