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Recombinant Influenza Hemagglutinin (H9 Hong Kong) Full-Length Glycoprotein (rHA GP)

Catalog No: tcip3041

Available Sizes

Size: 50µg

Specifications

Application:
ELISA, WB

Research Area:
Virology

Form:
Frozen Liquid

Concentration:
Supplied at a concentration of 0.33 mg/mL (by BCA) in Tris buffered saline plus 0.01% non-ionic detergent. ; The theoretical molecular weight of the protein is ~63 kDa, without glycosylation. Because of the highly glycosylated nature of this protein, mig

Recommended Dilution:
Western Blot: Quality control testing demonstrates detection of GP null under reduced conditions when using anti-H9 influenza antiserum. ; Hemagglutination with Turkey Red Blood Cells: HA Titer 1:32
768

Purity / Grade:
Column chromatography (FPLC); Purity: Residual baculovirus GP64 co-purifies with the affinity purified rHA GP and was determined to be less the 10% of the total protein.

Storage Instruction:
2-3 weeks at -20°C, long term It is recommended to dispense single-use aliquots and store aliquots at -80°C to avoid multiple freeze/thaw cycles

Relevance:
Recombinant hemagglutinin glycoprotein provides a control protein for immunoassays and a tool to enhance

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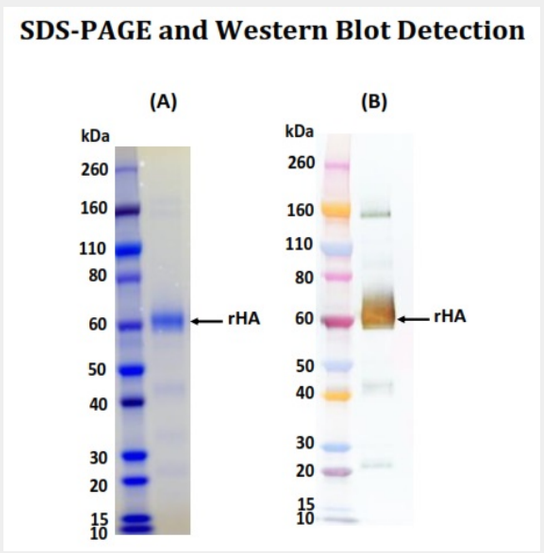
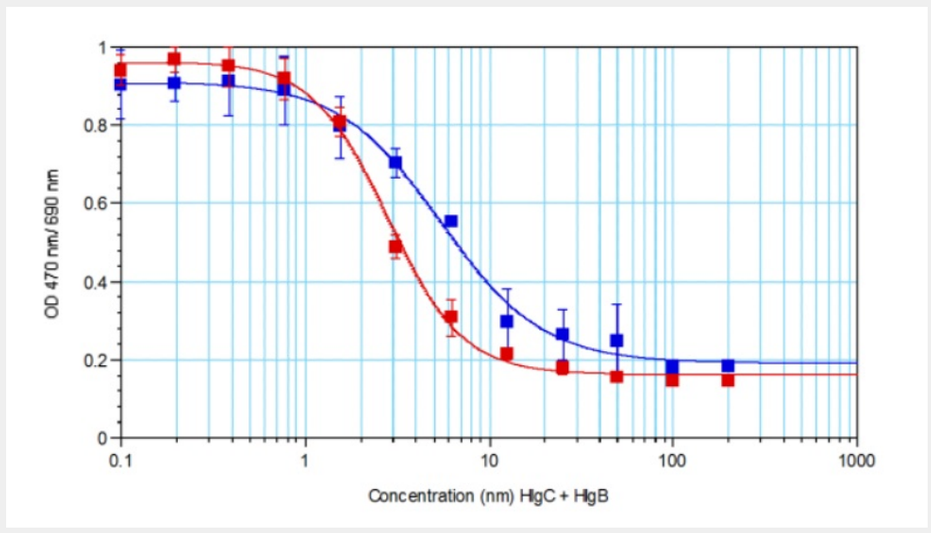
Orthomyxovirus research.

Product Description

Recombinant, Influenza Hemagglutinin Full-Length Glycoprotein (rHA GP) from virus strain A/Hong Kong/33982/2009 (H9N2). Recombinant HA is supplied as an affinity purified protein. rHA is produced in Sf9 insect cells using baculovirus for expression and is purified by FPLC



The theoretical molecular weight of the protein is ~62 kDa, without glycosylation. Because of the highly glycosylated nature of this protein, migration in an SDS-PAGE gel is slowed resulting in broad, diffuse bands representing differing glycosylation forms. (A) SDS-PAGE of rHA under reduced condition :1 µg. (B) Western blot detection of rHA at 100 ng, using an anti-HA (H1N1) polyclonal antibody at 0.5 µg/mL and an anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.



Toxin Functionality: Human promyleocytic leukemia cell line HL60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of Hlg B tag-free and Hlg C at equimolar concentration for 3 hours at 37°C with 5% CO 2 and 95% humidity. Cellular viability was determined by adding XTT and incubation for additional 16 hours. OD's were determined in the supernatants at 470/690 nm. Red squares represent the current lot of HIgC tag-free (1509003) and blue square represents the previous HIgC his-tag (Cat # 1403-002, Lot# 1211003). EC 50 was found to be 2.84 nM for current lot and 5.53 nM for HIgC his-tag (Cat # 1403-002, Lot# 1211003).