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Product Information

MemDX™ Membrane Protein SARS-CoV-2 S Mutation (B.1.1.529 Omicron) (Surface glycoprotein), S1 Subunit

Cat. No.: **MPX4701K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order SARS-CoV-2 omicron variant S Mutation (A67V, Δ69-70, T95I, G142D, Δ143-145, Δ211, L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y) S1 subunit protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
SARS-CoV-2

Target Protein
S Mutation (Omicron, B.1.1.529) S1 subunit

Protein Length
Full length

Protein Class
Host-virus interaction

TMD
1

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

Protein Format
Detergent or based on specific requirements

Form
Liquid

Storage
Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

S Mutation (Omicron, B.1.1.529) S1 subunit

Full Name

Surface glycoprotein

Introduction

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.

Alternative Names

S Mutation (B.1.1.529); Omicron Variant; S1 Subunit; structural protein; spike protein; Surface glycoprotein

Gene ID

43740568

UniProt ID

P0DTC2

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