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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-NA, Neuraminidase [NA-63] Standard Size Ab04405-15.0

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

Isotype and Format: Human IgM, Kappa

Clone Number: NA-63

Alternative Name(s) of Target: EC:3.2.1.18

UniProt Accession Number of Target Protein: S5MF06; R4NFR6; A0A2D0Z4C5

Published Application(s): crystallography, in vitro, inhibition, SPR, ELISA

Published Species Reactivity: Influenza A virus

Immunogen: The original antibody was raised by taking B cells from influenza A survivors and vaccinees and immortalizing these.

Specificity: This antibody is specific for a linear epitope of influenza virus neuraminidase from Asn329 to Pro342 with the only other interaction to Arg387.

Application Notes: The structure of the original version of this antibody was determined using cryo-EM and x-ray crystallography (Zhu et al., 2020; PMID:31757767) (Gilchuk et al., 2019; PMID:31757769). This antibody was used for an ELISA on the NA protein of influenza A (Gilchuk et al., 2019; PMID:31757769). The binding strength of this antibody to neuraminidase of influenza A was determined using surface plasmon resonance. This antibody was used for an egress inhibition assay on MDCK cells infected with influenza A. Here it showed its ability to inhibit egress at low concentrations. This antibody was used for a HDX-MS study. The N9 antigen showed hydrogen-deuterium exchange in the presence of this antibody (Gilchuk et al., 2019; PMID:31757769). This antibody was used for a fetuin-based ELLA NA activity assay. Here it showed inhibition of NA (Zhu et al., 2020; PMID:31757767).

Antibody First Published in: Gilchuk et al. Influenza H7N9 Virus Neuraminidase-Specific Human Monoclonal Antibodies Inhibit Viral Egress and Protect from Lethal Influenza Infection in Mice Cell Host Microbe. 2019 Dec 11;26(6):715-728.e8 [PMID:31757769](#)

Note on publication: The original paper isolated 35 human monoclonal antibodies (mAbs) from two H7N9 survivors and two vaccinees.

Product Form

Size: 50 µg Purified antibody.

Purification: Affinity Purified using a recombinant lectin column

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.