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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- Fusion glycoprotein F0 [PIA174] Standard Size Ab04445-10.29

This is a Fab fragment with His tag.

Isotype and Format: Human Fab fragment, His-Tagged, Kappa

Clone Number: PIA174

Alternative Name(s) of Target: F; Protein F; Human respirovirus 3

UniProt Accession Number of Target Protein: A0A059QA82

Published Application(s): in vitro, neutralization, SPR, ELISA

Published Species Reactivity: Human respirovirus

Immunogen: The original antibody was raised by isolating it from a B cell culture supernatant.

Specificity: This antibody is specific for DIII domain of fusion glycoprotein F0 from human respirovirus 3.

Application Notes: The original antibody was used for an ELISA on parainfluenza virus type 3. Further the structure of this antibody was determined using cryo-EM (Stewart-Jones et al., 2018; PMID:30420505). This antibody was used for a plaque reduction assay on Vero cells infected with parental or escape variant of human respirovirus. This antibody was used for a neutralization assay. It showed here that it disrupted the formation of the HN/F complex (Marcink et al., 2023; PMID:36763666). This antibody was used for surface plasmon resonance on LuS-N71-SpyLinked-PIV3 F (Zhang et al., 2020; PMID:33097791).

Antibody First Published in: Stewart-Jones et al. Structure-based design of a quadrivalent fusion glycoprotein vaccine for human parainfluenza virus types 1-4 Proc Natl Acad Sci U S A. 2018 Nov 27;115(48):12265-12270. [PMID:30420505](#)

Note on publication: To obtain a vaccine effective against all four PIV types, the original paper engineered mutations in each of the four PIV fusion (F) glycoproteins to stabilize their metastable prefusion states, as such stabilization had previously enabled the elicitation of high-titer neutralizing antibodies against the related respiratory syncytial virus.

Product Form

Size: 100 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

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.