Anti-Human parainfluenza virus (HPIV) neutralizing antibody, mouse monoclonal (PIHN-01)

Product code	65-182
Size	100 μg
Storage	-20℃
Concentration	1.0 mg/ml
Buffer	PBS(-) with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium
Immunogen	Hemagglutinin-neuraminidase (HN) fraction prepared from purified Human parainfluenza virus (HPIV type 3)
Isotype	mouse IgG2a κ
Reactivity	Reacts with the HPIV HN
Validation	Specificity has been validated by western blotting
Application	1.Western blotting: x1/200-400 (Fig.1) 2.Immunofluorescence: x1/400 (Fig.2)
Background	Human Parainfluenza Virus Type 3 (HPIV-3), a non-segmented, negative-strand RNA virus, causes lower respiratory illness in newborns, infants and older people. The genome of HPIV-3 encodes at least six proteins: the nucleoprotein (NP), phosphoprotein (P), RNA-dependent RNA polymerase (L), matrix protein (M), and two virus–host cell interaction glycoproteins, fusion protein (F) and hemagglutinin-neuraminidase (HN). The polypeptide of these antigens was identified by immunoprecipitation, immunoblotting and several serological analyses. The P, HN, NP, F and M antigens have a molecular weight of 84kDa, 72kDa (571 a.a.), 68kDa (515 a.a.), 53kDa and 40kDa polypeptide, respectively. The HN protein has been shown to induce neutralizing antibody. The protein (571 a.a.) migrates as 72-76kDa under reducing condition due to glycosylation.
Data Link	UniProtKB : P12561 (HN_PI3HA)

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 65-182 Anti-Human parainfluenza virus (HPIV) neutralizing antibody, mouse monoclonal (PIHN-01)

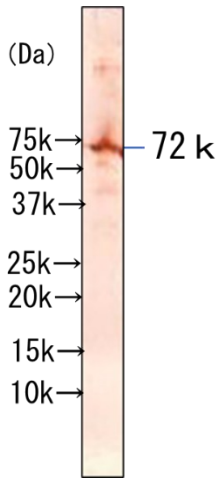

Fig.1. Identification of protein in HPIV-3 by Western blotting (WB).

The virus purified from the culture supernatant of infected cells were applied to SDS-PAGE and WB. The monoclonal antibody (MAb) was used at 1/ 200 dilution. The HRP-conjugated goat anti-mouse IgG was used at 1/2,000 as the second antibody and visualized by DAB (3,3'-Diaminobenzidine). A 72 kDa band was identified as HPIV HN protein.

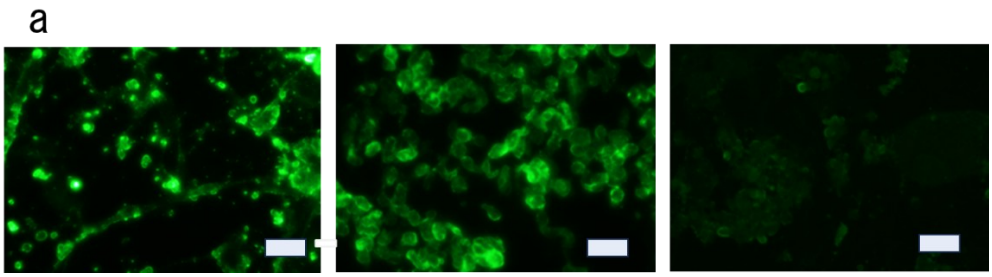

Fig.2. Detection of HPIV-3 protein infected in cells by immunofluorescence staining

(a)Vero cells were infected with HPIV on a slide glass and fixed with ethanol. (b) HPIV-infected Vero cells were treated with trypsin, smeared on the preparate and fixed with ethanol. (c) Uninfected Vero cells on a slide glass were fixed with ethanol. The MAb was used at 1/200 dilution. As the second antibody, FITC-conjugated rabbit anti-mouse IgG was used at 1/ 2,000 dilution. Bar maker represents 20μm.

References This antibody has not yet been used in publication.

Related product:65-180 Anti-Human parainfluenza virus (HPIV) nucleoprotein (NP) antibody, mouse monoclonal (PINP-01)

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