

Anti-Vaccinia Virus-antibody, mouse monoclonal (I106)
(cross-reacts with Monkeypox virus)

Product code	65-041
Size	50 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium
Immunogen	Vaccinia virus (strain Lister)
Isotype	mouse IgG1κ
Reactivity	Vaccinia virus (strain Lister)
Validation	Specificity has been validated by western blotting and immunofluorescence.
Application	1. Western blotting: x1/200-400 (Fig.1) 2. Immunofluorescence: x1/200-400 (Fig.2)
Background	Variola virus (VAV), Vaccinia virus (VV) and Monkeypox virus (MPV) belong to the genus Orthopoxvirus of the family Poxviridae. The VAV and MPV cause serious, contagious, and sometimes fatal disease. Therefore, confirmation of these outbreaks requires rapid and reliable detection and diagnosis. Several major antigens have been shown to be induced in cells infected with VV, i.e. the nucleoprotein (NP) antigen, the heat-labile and stable complex (LS) antigen, the haemagglutinin (HA), the cell surface (CS) antigen and the antigen involved in neutralization (NT). The polypeptide of these antigens was identified by immunoprecipitation, immunoblotting, immunofluorescence test and several serological analyses. The LS antigen, HA antigen, CS antigen and NT antigen have 100k, 85k, 43k and 28k polypeptide, respectively.
Data Link	
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 65-041 Anti-Vaccinia virus antibody, mouse monoclonal (I106)

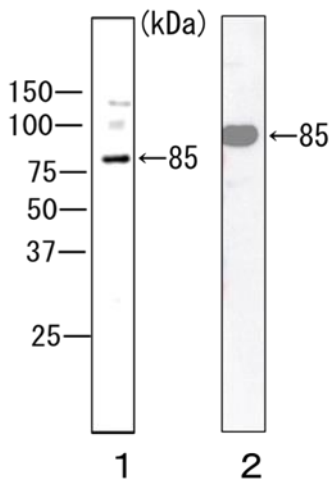


Fig. 1. Identification of VV protein by Western Blotting with anti VV monoclonal antibody (I160). The Culture supernatants of VV (Lister strain)-infected RK13 cells (1) and MPV-infected VeroE6 cells (2) were applied to SDS-PAGE and WB. The antibody was used at 1/200 dilution. The HRP-conjugated goat anti-mouse IgG was used at 1/4,000 as the second antibody. The antibody reacted with approximately 85k polypeptide in infected cells.

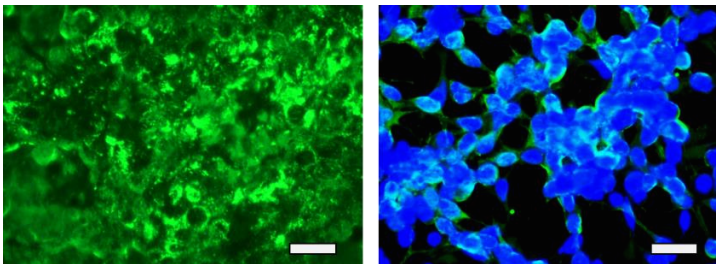


Fig.2. Staining of VAV in the virus-infected cells by indirect immunostaining with anti VAV monoclonal antibody (I160).

The VAV (Lister strain)-infected RK30 cells on a slide glass were fixed with ethanol. The antibody was used at 1/200 dilution. The FITC-conjugated goat anti-mouse IgG was used at 1/4,000 as the second antibody. The antibody showed cell surface fluorescence staining. Bar maker represents 20µm.

References This antibody has not yet been used in publication.

Related Product:

65-038 Anti-Vaccinia virus L1 antibody, mouse monoclonal (NP2), (cross-reacts with Monkeypox virus)

65-039 Anti-Vaccinia virus L1 antibody, mouse monoclonal (NP3), neutralization

65-040 Anti-Vaccinia virus-antibody, mouse monoclonal (I30) , (cross-reacts with Monkeypox virus)