Anti-Rubella virus capsid protein antibody, rabbit polyclonal

Product code	65-382
Size	100 µg
Storage	-20℃
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Recombinant rubella virus capsid protein (CP, aa 1 to 277) expressed in *E. coli*
Isotype	N/A
Reactivity	Rubella virus CP(NP)
Validation	Specificity has been validated by western blotting (Fig. 1)
Application	1.Western blotting: x1/400-800 (Fig.1) 2.Immunofluorescence: x1/400 (Fig.2)
Background	Rubella virus (RV) is a human pathogen that causes "German measles," a relatively mild disease characterized by rashes and low-grade fever. However, due to its teratogenic properties, RV is a major threat to the fetus when infection occurs during the first trimester of pregnancy. RV is the sole member of Rubivirus genus in the Togaviridae family. RV has a single-stranded, positive-sense RNA genome. The genome encodes two open reading frames (ORFs): the 5'-proximal ORF encodes viral nonstructural proteins that are responsible for viral genome replication, while the 3'-proximal ORF encodes three virion structural proteins, the capsid protein (CP, ~35 kDa), and the two envelope glycoproteins, E2 (58-59 kDa) and E1 (42-48 kDa). The CP has well-defined roles in virus assembly, interacts with the RNA genome and forms the nucleocapsid (aa 277).
Data Link	**UniprotKB:** PO8563 POLS_RUBVM (M33 strain)

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: 65-382 Anti-Rubella virus capsid protein antibody, rabbit polyclonal

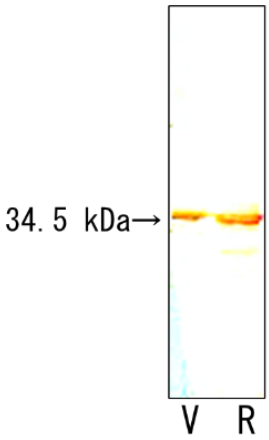

Fig.1. Western blotting (WB) of anti-RV CP antibody.

The recombinant RV CP and the lysates of RV-infected VeroE6 cells were applied to SDS-PAGE and WB: (V) lysate of infected cells with RV, (R) recombinant RV CP (0.2mg/ml). The antibody was used at 1/400 dilution. The HRP-conjugated goat anti-mouse IgG was used at 1/4,000 as the second antibody and visualized by DAB (3,3'-Diaminobenzidine). A protein band 34.5kDa in size corresponds to the expected size of the RV CP.

References This antibody has not yet been used in publication.

Related product: 65-380 Anti-Rubella virus capsid protein, mouse monoclonal (RVC-01)

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