

Product datasheet

Recombinant Rubella virus E1 protein ab107947

Overview

Product name	Recombinant Rubella virus E1 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Accession	P08563

Specifications

Our [Abpromise guarantee](#) covers the use of **ab107947** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot ELISA
Purity	> 80 % SDS-PAGE. ab107947 is purified by Metal affinity chromatography.
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles. Preservative: 0.1% Sodium azide Constituent: 0.0036% Hydrochloric acid
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General Info

Relevance	Rubella virus is the only member of the Rubrivirus genus of the Togavirus family. Unlike most Togaviruses it is NOT arthropod borne, but is acquired via the respiratory route. It is an enveloped (toga=cloak), non-segmented, positive sense, RNA virus and replicates in the cytoplasm. It consists of 3 structural proteins; E1,E2 membrane bound glycoproteins, and C capsid protein. E1 envelope glycoprotein is a class II viral fusion protein. Fusion activity is inactive as long as E1 is
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bound to E2 in mature virion. After virus attachment to target cell and endocytosis, acidification of the endosome induces dissociation of E1/E2 heterodimer and trimerization of the E1 subunits. This E1 homotrimer is fusion active, and promotes release of viral nucleocapsid in the cytoplasm after cell and viral membrane fusion. The E1 cytoplasmic tail modulates virus release, and the tyrosines residues are critical for this function.

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