



Product Data Sheet

□ Cat # RP-1413

Recombinant (E.Coli) Rubella Virus E1 Mosaic protein

Size: 100 ug

Rubella virus (RuV) is the pathogenic agent of the disease rubella, and is the cause of congenital rubella syndrome when infection occurs during the first weeks of pregnancy. Rubella virus is an enveloped positive-strand RNA virus of the family Togaviridae: Virions are composed of three structural proteins: a capsid and two membrane-spanning glycoproteins, E2 and E1. During virus assembly, the capsid interacts with genomic RNA to form nucleocapsids. The rubella virus (RV) structural proteins: capsid, E2, and E1 are synthesized as a polyprotein precursor. The signal peptide that initiates translocation of E2 into the lumen of the endoplasmic reticulum remains attached to the carboxy terminus of the capsid protein after cleavage by signal peptidase. Immunoreactive with sera of Rubella Virus infected individuals.

The rubella vaccine is a live attenuated strain that has been in use for more than 40 years. A single dose gives more than 95% long-lasting immunity, which is similar to that induced by natural infection.

Rubella vaccines are available either in monovalent formulation (vaccine directed at only one pathogen) or more commonly in combinations with other vaccines such as with vaccines against measles (MR), measles and mumps (MMR), or measles, mumps and varicella (MMRV).

**Source:** The E.Coli derived recombinant protein contains the Rubella Virus E1 regions, 157-176, 374-390, 213-239 amino acids. Rubella protein was purified by proprietary chromatographic technique. 20mM imidazol, 8M urea and 0.3M NaCl.

**Applications and Suggested Dilutions:** Rubella protein is >95% pure as determined by 10% PAGE (coomassie staining). Rubella antigen is suitable for ELISA and Western blots, excellent antigen for detection of Rubella Virus with minimal specificity problems. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** Rubella Protein is shipped at ambient temperature. Upon arrival, Store at -20°C. Five years frozen. One month in solution at room temperature. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or

aliquots in suitable size and store at -20oC for long term storage.

**Usage:**

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

*\*This product is for in-vitro research use only.*

Catalog#	Prod Description
510-100-HRG quantitative	Human Anti-Rubella Virus IgG ELISA kit, 96 tests,
510-120-MRG quantitative	Mouse Anti-Rubella Virus IgG ELISA kit, 96 tests,
510-110-HRM quantitative	Human Anti-Rubella Virus IgM ELISA kit, 96 tests,
510-130-MRM quantitative	Mouse Anti-Rubella Virus IgM ELISA kit, 96 tests,
RP-1413	Recombinant (E.Coli) Rubella Virus E1 Mosaic protein
RP-1414	Recombinant (E.Coli) Rubella Virus E2 protein
RP-1415	Recombinant (E.Coli) Rubella Virus Capsid C protein
RUBL11-A	Anti-Rubella virus (HPV77 strain) IgG, unlabeled
RUBL11-BTN	Anti-Rubella virus (HPV77 strain) IgG-Biotin conjugate
RUBL11-FITC	Anti-Rubella virus (HPV77 strain) IgG-FITC conjugate
RUBL11-HRP	Anti-Rubella virus (HPV77 strain) IgG-HRP conjugate
RUBL12-M	Monoclonal Anti-Rubella virus (HPV72) E2 IgG, aff pure
RUBL13-M	Monoclonal Anti-Rubella virus envelop protein E1 IgG, aff pure
RUBL14-M	Monoclonal Anti-Rubella virus envelop protein E2 IgG, aff pure
RUBL15-M	Monoclonal Anti-Rubella virus capsid protein IgG, aff pure
RUBL16-M	Monoclonal Anti-Rubella virus core protein IgG, aff pure
RUBL17-M	Monoclonal Anti-Rubella virus structural glycoprotein E1 IgG, aff pure
RUBL15-N-500	Rubella virus (HPV77 strain) proteins/antigens extract

RP-1413-Rubella-E1-Mosaic

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