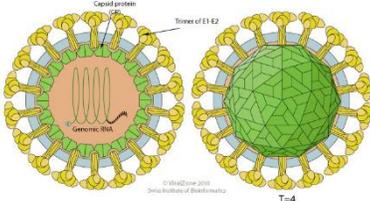


Rubella Vaccines Antibody ELISA Kits, Recombinant Proteins, Peptides and Antibodies

Rubella, commonly known as **German measles**, is a disease caused by the rubella virus. Rubella is a common childhood infection usually with minimal systemic upset although transient arthropathy may occur in adults. Serious complications are very rare. **Acquired (i.e. not congenital) rubella** is transmitted via airborne droplet emission from the upper respiratory tract of active cases. There is no carrier state: the reservoir exists entirely in active human cases. The disease has an incubation period of 2 to 3 weeks.

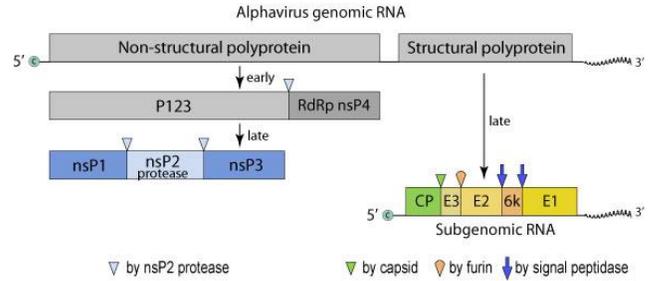


The disease is caused by **Rubella virus**, a togavirus that is enveloped and has a ssRNA genome. **Rubella virus specific IgM antibodies** are present in people recently infected by Rubella virus but these

antibodies can persist for over a year and a positive test result needs to be interpreted with caution. Rubella infections are prevented by active immunization programs using live, disabled **virus vaccines**. Two **live attenuated virus vaccines**, RA 27/3 and Cendehill strains were effective in the prevention of adult disease. The vaccine is now usually given as part of the MMR vaccine.

Rubella virus is the only member of the genus Rubivirus and belongs to the family of Togaviridae, whose members commonly have a genome of ssRNA (9.7Kb) which is enclosed by an icosahedral **capsid**. The genome encodes 2 nonstructural polypeptides (p150 and p90) within its 5'-terminal two-thirds and 3 structural polypeptides (C, E2, and E1) within its 3'-terminal one-third. Both envelope proteins E1 and E2 are glycosylated. There are prominent "spikes" (projections) of 6 nm composed of the viral envelope proteins **E1** and

E2 embedded in the membrane. The E1 glycoprotein is considered



immunodominant in the humoral response induced against the structural proteins and contains both neutralizing and hemagglutinating determinants.

MMR II vaccine is a mixture of three live attenuated viruses, administered via injection. GlaxoSmithKline Biologicals as **Priorix**, Serum Institute of India as **Tresivac**, and Sanofi Pasteur as **Trimovax**. The **MMRV vaccine**, a combined **measles, mumps, rubella and varicella vaccine**, has been proposed as a replacement for the MMR vaccine to simplify administration of the vaccines.

About ADI Rubella Vaccine ELISA Kits-ADI has developed antibody ELISA kits to assess immune status of humans and animals and to assess vaccine efficacy or formulate new vaccines. Antibody ELISA kits for species and isotypes not listed here can be made available as well.

Rubella vaccine Related ELISA kits

(See Details at the website) http://4adi.com/commerce/catalog/spcategory.jsp?category_id=2750

ELISA Kit Description	Species	IgG Specific Cat#	IgM Specific Cat#
Rubella Vaccine (Virus Antibody) ELISA Kits	Human	510-100-HRG	510-110-HRM
	Mouse	510-120-MRG	510-130-MRM

Rubella Related Antibodies, Peptides, and Recombinant Proteins Ordering Information

(See Details at the website) http://4adi.com/commerce/catalog/spcategory.jsp?category_id=2750

item	Catalog #	Product Description	Product Type
Rubella Virus	RUBL11-A	Goat Anti-Rubella virus (HPV77 strain) IgG	Antibodies
	RUBL11-BTN	Goat Anti-Rubella virus (HPV77 strain) IgG-Biotin conjugate	Antibodies
	RUBL11-FITC	Goat Anti-Rubella virus (HPV77 strain) IgG-FITC conjugate	Antibodies
	RUBL11-HRP	Goat Anti-Rubella virus (HPV77 strain) IgG-HRP conjugate	Antibodies
	RUBL12-M	Monoclonal Anti-Rubella virus (HPV72) IgG, aff pure	Antibodies
	RUBL15-N-500	Rubella virus (HPV77 strain) proteins/antigens extract	Antibodies
E1 protein	RP-1413	Recombinant Rubella Virus E1 Mosaic protein	Pure protein
	RUBL17-M	Monoclonal Anti-Rubella virus structural glycoprotein E1 IgG, aff pure	Antibodies
	RUBL13-M	Monoclonal Anti-Rubella virus envelop protein E1 IgG, aff pure	Antibodies
E2 Protein	RUBL14-M	Monoclonal Anti-Rubella virus envelop protein E2 IgG, aff pure	Antibodies
	RP-1414	Recombinant Rubella Virus E2 protein	Pure protein
Capsid	RP-1415	Recombinant Rubella Virus Capsid C protein	Pure protein
	RUBL15-M	Monoclonal Anti-Rubella virus capsid protein IgG, aff pure	Antibodies
Core	RUBL16-M	Monoclonal Anti-Rubella virus core protein IgG, aff pure	Antibodies

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