

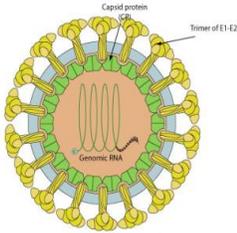
Product Specification Sheet

**Rubella K2S Antibody**

□ Cat # RUBL21-S

Rabbit Anti-Rubella K2S antibody, IgG fraction

**SIZE:** 100 ul



Rubella, commonly known as German measles, is a disease caused by the rubella virus. The name rubella is sometimes confused with rubeola, an alternative name for measles; the diseases are unrelated. This disease is often mild and attacks often pass unnoticed. The disease can last one to three days. 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. The virus may also be present in the urine, feces and on the skin. The disease is caused by Rubella virus, a togavirus that is enveloped and has a single-stranded RNA genome.

Rubella virus is the only member of the genus of Rubivirus and belongs to the family of Togaviridae, whose members commonly have a genome of single-stranded RNA of positive polarity which is enclosed by an icosahedral capsid. 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. The genome has 9,762 nucleotides and 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.

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. MMR II vaccine (Merck) is a live virus vaccine for vaccination against measles (rubeola), mumps, and rubella (German measles). MERUVAX\* II (Rubella Virus Vaccine Live), the Wistar RA 27/3 strain of live attenuated rubella virus propagated in WI-38 human diploid lung fibroblasts.

**Source of Antigen and Antibodies**

**Immunogen:** Rubella K2S grade antigen (Strain:HPV-77)

**Host:** Rabbit

**Form:** IgG fraction

**Purification:** Ammonium sulfate followed by Protein G purification

**Recommended Secondary Antibody:** Goat anti-Rabbit IgG-HRP

**Negative Control:** Non-immune Rabbit IgG (ADI cat# 20009-1).

**Form & Storage of Antibody**

**IgG Fraction**

□ Solution 100 ul Supplied in PBS + 0.1% azide

□ Lyophilized **Reconstitute powder** in 100 ul distilled water

**Storage**

**Short-term:** 1 month at 4°C

**Long-term:** -20°C-80°C for 1 year

**Stability:** 12 months at -20°C or below.

**Shipping:** 4°C for solutions and room temp for powder

**Recommended Usage**

**QC:** Titer was assessed in an indirect ELISA against 1 ug/ml of coated Rubella K2S grade antigen. The OD450 was approximately 2.0 at a dilution of 1:100K.

**Western Blotting:** 1:25,00-1:50,000.

**ELISA:** Assay dependent concentration.

Above concentrations are a suggestion, user's must optimize conditions based on their own assay. Antibodies may work in other applications such as Flow Cytometry, IF, or IHC. These methods have not been tested by ADI.

This product is for in vitro research use only.

**Related Material available for ADI**

Catalog#	Description
510-100-HRG	Human Anti-Rubella Virus IgG ELISA kit
510-110-HRM	Human Anti-Rubella Virus IgM ELISA kit
510-120-MRG	Mouse Anti-Rubella Virus IgG ELISA kit, 96 tests
510-130-MRM	Mouse Anti-Rubella Virus IgM ELISA kit, 96 tests
RP-1413	Recombinant Rubella Virus E1 Mosaic protein
RP-1414	Recombinant Rubella Virus E2 protein
RP-1415	Recombinant 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,
RUBL14-M	Monoclonal Anti-Rubella virus envelop protein E2 IgG,
RUBL15-M	Monoclonal Anti-Rubella virus capsid protein IgG, aff
RUBL15-N-500	Rubella virus (HPV77 strain) proteins/antigens extract
RUBL16-M	Monoclonal Anti-Rubella virus core protein IgG, aff pure
RUBL17-M	Monoclonal Anti-Rubella virus structural glycoprotein E1
IgG, aff pure	

RUBL21-S

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