

BP1061**Polyclonal Antibody to Rubella virus (Strain HPV77) - Ig Fraction****Alternate names:**

German measles

Quantity:

1 ml

Concentration:

4-5 mg/ml (OD280 nm, E0.1% = 1.4)

Background:

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 causes German measles (a mild contagious eruptive disease, capable of producing congenital defects in infants born to mothers infected during the first three months of pregnancy).

Rubella virus is an enveloped positive-strand RNA virus. The genome encodes two open reading frames (ORFs): the 5'-proximal ORF encodes viral nonstructural proteins (NSP) that are responsible for viral genome replication, while the 3'-proximal ORF encodes three virion structural proteins (SP), the capsid protein (CP), and the two envelope 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.

Host:

Goat

Immunogen:

Strain HPV77

Format:**State:** Liquid purified Ig fraction (> 95% pure)**Purification:** Sodium Sulfate Precipitation and Ion Exchange Chromatography**Buffer System:** 0.01M PBS, pH 7.2**Preservatives:** 0.09% Sodium Azide**Stabilizers:** None**Applications:****ELISA, Immunofluorescence Microscopy, Immunoblotting and Hemagglutination Inhibition.**

Also suitable for conjugation purposes.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody reacts with purified virions.

Negative against VERO cells by **Direct Immunofluorescence**.**Storage:**

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Product Citations:**Purchased from Acris:**

1. Otsuki, N; Sakata, M; Saito, K; Okamoto, K; Mori, Y; Hanada, K; Takeda, M. Both sphingomyelin and cholesterol in the host cell membrane are essential for Rubella virus entry. J. Virol. 2017. PubMed PMID: 29070689