

Monoclonal Antibody to Rubella virus glycoprotein E1 - Ascites

Catalog No.: AM10218SU-N

Quantity: 0.2 ml

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 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 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.

Host / Isotype: Mouse / IgG1

Clone: 5D11

Immunogen: Recombinant E1H Rubella virus

Format: **State:** Lyophilized powder
Preservatives: None
Reconstitution: Restore in distilled water.

Applications: **ELISA :** 1/2000-1/10000.
Western Blot: 1/200-1/1000.
Immunocytochemistry on infected cells (IF): 1/100-1/500.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Reacts with E1 hemagglutinin antigen, specific for Rubella virus (RUBV).
No cross reaction with other viruses.

Storage: Prior to reconstitution store the antibody at -20°C.
Store reconstituted antibody 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.