



Rabbit Polyclonal Antibodies Against HRV-A16 (Human Rhinovirus, Species A, Strain 16) Proteins 2A Protease, 3C Protease and 3D Polymerase

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The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing biomaterial for rhinovirus diagnostics or experimental reagents.

Overview

The HRV proteases (3C and 2A) and the 3D polymerase have very important functions in virus replication cycle and virus-host interactions and are very intensively investigated for their role in developing asthma symptoms. Antibodies are a very powerful tool for studying different aspects of viral replication and effects of separate viral proteins on host cells during infection.

The Invention

UW-Madison researchers have developed a polyclonal mouse antibody preparation against each of the recombinant proteins 2A (protease), 3C (protease) and 3D (polymerase) from human rhinovirus species A, strain 16 (HRV-A16). The preparations can be used in assays such as ELISA, western blot, confocal microscopy. Moreover, all of these sera are cross-reactive against the analogous proteins from other species A HRV (i.e. HRV-A01, HRV-A89, and HRV-A02), and the serum raised to 3D (HRV-A16) is also cross-reactive against an HRV species B isolate, HRV-B14.

Applications

- Provides a polyclonal antibody to HRV-A16 which can be used in assays such as ELISA, western blot, and confocal microscopy

Key Benefits

- All these sera are cross-reactive against the analogous proteins from other species A HRV (in particular, HRV-A01, HRV-A89, and HRV-A02).
- The sera raised to 3D is also cross reactive against HRV species B isolate, HRV-B14.
- The developed antibodies can be used in both clinical and basic scientific investigations.

Additional Information

For More Information About the Inventors

- [Ann Palmenberg](#)
- [James Gern](#)

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