



Polyclonal Antibodies Against Cardiovirus 2A, 2B, 2C, 3C, 3A, 3B and 3AB Proteins

WARF: P07499US

Inventors: Ann Palmenberg, Svetlana Amineva, Aleksey Aminev

The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in polyclonal antibodies against several cardiovirus proteins.

Overview

Encephalomyocarditis virus, a cardiovirus, causes encephalitis and myocarditis. It is a widespread problem in swine, causing sudden death and reproductive failure and potentially leading to severe economic losses for pork producers. This virus also infects exotic mammals such as elephants and llamas.

The Invention

UW-Madison researchers have developed polyclonal mouse antibodies against recombinant cardiovirus proteins. The antibodies can be used for specific molecular recognition of the cardiovirus proteins *in vitro* or *in vivo* using experimental techniques such as ELISA (enzyme linked immunosorbent assay), Western assays, protein immunoprecipitation (IP) and confocal fluorescence microscopy.

Applications

- Studying cardiovirus proteins
- May lead to new means of detecting, preventing and treating cardiovirus infection, including encephalomyocarditis virus infection

Key Benefits

- All reagents have been tested for efficacy.
- Most of the antibodies react with viral precursor proteins, in addition to the mature proteins against which they were raised.

Additional Information

For More Information About the Inventors

- [Ann Palmenberg](#)

Related Technologies

- [For more antibodies identified by the inventors, see WARF reference numbers:](#)
- [P07448US](#)
- [P07500US](#)

Publications

- Aminev A.G., Amineva S.P. & Palmenberg A.C. 2003. Encephalomyocarditis Virus (EMCV) Proteins 2A and 3BCD Localize to Nuclei and Inhibit Cellular mRNA Transcription but not rRNA Transcription. *Virus Res.* 95, 59-73.
- Aminev A.G., Amineva S.P. & Palmenberg A.C. 2003. Encephalomyocarditis Viral Protein 2A Localizes to Nucleoli and Inhibits Cap-Dependent mRNA Translation. *Virus Res.* 95, 45-57.

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Tech Fields

- [Research Tools : Antibodies](#)

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854

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