

# Mouse anti-bat monoclonal antibody

Published date: Feb. 27, 2015

## Technology description

One of the problems with studying bat immunology is that no serologic assay exists to probe bat responses to various pathogens such as rabies, severe acute respiratory syndrome (SARS) and *Geomyces destructans*, the etiologic agent of white nose syndrome, a condition associated with an unprecedented bat mortality event in the United States. Filling that gap was ideal for our organization since our rabies lab receives bats for testing throughout the year. So far, experimentation with our unique mAb (BT1-4F10) showed that it could distinguish between rabies infected versus non-infected bats in an assay commonly used to detect rabies but never before in bats.

Emerging pathogens, many of them viruses, continue to surprise us by an underappreciated source, bats. Although bats are among the most abundant, diverse and geographically dispersed orders of terrestrial mammals, typically little has been studied about the bat as a host carrying microorganisms and transmitting pathogens to other species. In fact, bats are increasingly proving to be rich reservoirs of emerging viruses and re-emerging viruses as we disrupt by encroaching natural areas exposing not only ourselves, but our domesticated animals to viruses that earlier lacked opportunities to jump species.

## Application area

ELISA, SDS-PAGE, Western blot, Immunohistochemistry and immunofluorescence

## Advantages

Host: Mouse Target Species: Bat (microchiropteran only) Clone: BT1-4F10 The monoclonal antibody identifies all immunoglobulin classes, IgG, IgD, IgE, IgA and IgM. We have about 75 different mAbs that react with different bat cells, blood products and different types of bat immune cells yet to be characterized. Diagnosis of rabies in bats vs. typical measurement by viral neutralization assays Enable research on fundamental properties of the microchiropteran immune system Assess the status of bat immunity to specific pathogens i.e. *Geomyces destructans*, the etiologic agent of white nose syndrome Provide diagnostic assays for analyses of antibodies from bat sera Provide a platform for analysis of bat tissues by ELISA, immunochemistry, immunohistochemistry, Western blot and flow cytometry

Institution

[Health Research Inc](#)

## 联系我们



叶先生

电话 : 021-65679356

手机 : 13414935137

邮箱 : yeyingsheng@zf-ym.com