

**BM2627****Monoclonal Antibody to Enrofloxacin/Ciprofloxacin - Purified**

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| <b>Quantity:</b>                     | 1 mg  |
| <b>Concentration:</b>                | 1.0 mg/ml (OD280 nm)  |
| <b>Background:</b>                   | <p>Enrofloxacin is a fluoroquinolone that inhibits the activity of bacterial DNA gyrase. It was the first fluoroquinolone antimicrobial to be used in veterinary infections by <i>E. coli</i>, <i>Salmonella</i>, <i>Pasteurella</i>, <i>Mycoplasma</i> and <i>Hemophilus</i> species.</p> <p>Ciprofloxacin, a fluoroquinolone, is a concentration dependent bactericidal agent. It is structurally related to enrofloxacin, and has a similar spectrum of activity. Both of these antimicrobials have shown activity against some gram positive aerobes and a wide range of gram negative bacilli and cocci, which include <i>Klebsiella</i>, <i>Pseudomonas</i>, <i>Salmonella</i>, and other organisms such as <i>Mycoplasma</i>, <i>Staphylococci</i> and <i>Chlamydia</i>. Due to the fluoroquinolone's variable activity against most <i>Streptococci</i>, as well as their weak activity against many anaerobic bacteria, they are generally not recommended for use in treating infections where these types of microbes are present. Like enrofloxacin, ciprofloxacin is believed to act by inhibiting bacterial DNA gyrase which prevents DNA supercoiling and DNA synthesis.</p> |
| <b>Host / Isotype:</b>               | Mouse / IgM   |
| <b>Recommended Isotype Controls:</b> | SM13P   |
| <b>Clone:</b>                        | 72FIG1F7#1  |
| <b>Immunogen:</b>                    | Enrofloxacin conjugated to KLH (keyhole limpet hemocyanin) via carbodiimide   |
| <b>Format:</b>                       | <b>State:</b> Liquid purified Ig fraction<br><b>Buffer System:</b> PBS buffer, pH 7.4 without preservatives   |
| <b>Applications:</b>                 | Suitable for use in ELISA.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.  |
| <b>Specificity:</b>                  | Reacts equally well with Enrofloxacin and its main metabolite, Ciprofloxacin.<br>Enrofloxacin is a fluoroquinolone that inhibits the activity of bacterial DNA gyrase. It was the first fluoroquinolone antimicrobial to be used in veterinary infections by <i>E. coli</i> , <i>Salmonella</i> , <i>Pasteurella</i> , <i>Mycoplasma</i> and <i>Hemophilus</i> species.   |
| <b>Storage:</b>                      | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.  |