

**F(ab')<sub>2</sub> Mouse IgM (mu chain) Goat Polyclonal**  
**ATS-SELECT SECONDARY ANTIBODY**

**Catalog Number:** AS-339  
**Quantity:** 1 milligram  
**Format:** IgG F(ab')<sub>2</sub>, Liquid (sterile filtered)  
**Host:** Goat  
**Immunogen:** Anti-Mouse IgM was produced by repeated immunization with Mouse IgM heavy chain in goat.

**Background:** F(ab')<sub>2</sub> anti-Mouse IgM antibody was generated by enzymatic cleavage and subsequent separation from the Fc fragment. Because of their smaller size, F(ab)<sub>2</sub> fragments offer several advantages over intact antibodies for use in certain immunochemical techniques and experimental applications. F(ab)<sub>2</sub> fragments penetrate into tissue samples and show better antigen recognition and signal generation in IHC. F(ab)<sub>2</sub> fragments lack the Fc region and therefore do not bind Fc receptors which effectively lowers background staining. F(ab')<sub>2</sub> Mouse IgM antibody is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.

**Specificity & Preparation:** F(ab')<sub>2</sub> anti-Mouse IgM antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgM coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities, pepsin digestion and chromatographic separation. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Mouse IgM and Mouse Serum. No reaction was observed against anti-Pepsin or anti-Goat IgG F(c). Specificity was confirmed by ELISA at less than 1% cross-reactivity against other mouse heavy or light chain isotypes.

**Usage:** F(ab')<sub>2</sub> anti-Mouse IgM antibody has been tested by ELISA and is suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based assays requiring extremely low background levels, absence of F(c) mediated binding, lot-to-lot consistency, high titer and specificity. The maximum amount of reagent required to stain 1 x 10<sup>6</sup> cells in flow cytometry is approximately 1.0 µg of antibody. Lesser amounts of reagent may be sufficient for staining. Optimal titers for other applications should be determined by the researcher. As a general guideline dilutions of 1:100 to 1:250 should be suitable for most applications.

ELISA 1:2,000 - 1:8,000

Immunohistochemistry 1:1,000 - 1:5,000

Western Blot 1:200 - 1:2,000

Working dilutions must be determined by end user.

**Storage:** Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of receipt.

*To view protocol(s) for this and other products please visit: [www.ATSBio.com/library/protocols](http://www.ATSBio.com/library/protocols)*