

**OMNITOPE** <sup>TM</sup> product information for**Mycobacterium tuberculosis****Antiserum Products****Antiserum Characterization** (neat)

HOST ANIMAL : Rabbit

IMMUNOGEN : purified PPD

SPECIFICITY : antibody is reactive with numerous antigens - see below#

TITER : &gt; 1:1,000 in indirect ELISA

CROSS REACTIVITY: This antiserum has **not** been absorbed & may react with related microorganisms\*

UNINFECTED CELL REACTIVITY: N/D

OTHER : Antibody functions in immunohistochemistry

**4601 Unconjugated Preparation**

This product consists of the purified IgG fraction of the above antiserum prepared by methods developed by ViroStat to a purity of >95%. The product is formulated in a phosphate saline buffer (0.01M, pH 7.2) containing 0.1% sodium azide preservative. No stabilizing proteins have been added. Potential applications for this product are numerous including ELISA, fluorescence microscopy, immunoblotting and immunohistochemistry. In addition, this product may be used in place of neat antiserum in almost any appropriate antibody-based technique. It is also suitable for conjugation purposes. Protein concentration is 4-5 mg/ml. Recommended short term (<6 months) storage is liquid at 2-8°C. For longer term storage, aliquot and freeze. Unit size is 1.0 ml.

**4607 Biotin Conjugate**

This product consists of purified IgG fraction of the above antiserum covalently coupled with the N-Hydroxysuccinimide ester of biotin under mild conditions to give a high degree of substitution. The product is formulated in a phosphate saline buffer (0.01M, pH 7.2) containing 0.1% sodium azide preservative. No stabilizing proteins have been added. Possible applications for this product include avidin and streptavidin amplification systems for immunohistochemistry, ELISA, fluorescence microscopy and immunoblotting. In addition, this product may be used in place of neat antiserum in almost any appropriate antibody-based technique. Protein concentration is 4-5 mg/ml. Recommended short term (<6 months) storage is liquid at 2-8°C. For longer term storage, aliquot and freeze. Unit size is 1.0 ml.

**4603 Fluorescein Conjugate**

This product consists of purified IgG fraction of the above antiserum covalently coupled with high purity Isomer I of fluorescein isothiocyanate. Care is taken to ensure complete removal of any free fluorescein from the final product. The product is formulated in a phosphate saline buffer (0.01M, pH 7.2) containing bovine serum albumin (10 mg/ml) as a stabilizer and 0.1% sodium azide preservative. Applications for this product include direct FA staining of target antigens in a permissive tissue culture system. Working dilution must be determined by the user for his or her application but a starting range of 1:10 - 1:50 is suggested. Acetone fixation of the antigen source is recommended prior to staining. ViroStat also recommends use of its COUNTERSTAIN/BLOCKING DILUENT (Cat.#4400) and its MOUNTING MEDIUM (Cat.#4300) for optimum product performance. Enzyme amplification following reaction with FITC conjugate can also be accomplished utilizing ViroStat's enzyme-antibody conjugates specific to FITC (Cat.#s 3104 & 3105). Recommended short term (<6 months) storage is liquid at 2-8°C under subdued light. For longer term storage, aliquot and freeze. Immunoglobulin concentration is 4-5 mg/ml. Unit size is 1.0 ml.

**4604 Peroxidase Conjugate**

This product consists of purified IgG fraction of the above antiserum covalently coupled to a highly purified preparation of horseradish peroxidase (RZ >3) by methods developed by ViroStat. Care is taken to ensure adequate conjugation while preserving maximum enzyme activity. Free enzyme is absent. Immunoglobulin concentration in this product is 1-2 mg/ml. Estimated molar HRP:IgG substitution is 2-3. This preparation is supplied in a PBS buffer (0.01M, pH 7.2) stabilized with bovine serum albumin (10 mg/ml) and preserved with 0.002% thimerosal. Potential applications include immunohistochemical, immunoblotting and EIA applications. Working strength must be determined by the user but a starting range of 1:20 - 1:200 is recommended for immunochemistry and blotting while 1:200 - 1:1,000 is recommended for enzyme immunoassays. Recommended short term (<6 months) storage is liquid at 2-8°C. For longer term storage, aliquot and freeze. Unit size is 1.0 ml. **NOTE: sodium azide is a potent inhibitor of peroxidase !**

**THESE PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES**

## Comments:

\* Antibody is reactive with other Mycobacteria species including: M. avium, M. phlei, and M. parafortuitum.

Antibody is non-reactive with E. coli K12, Salmonella typhimurium, Pseudomonas aeruginosa, Streptococcus (group B), Candida albicans and Neisseria meningitidis. Others not tested.

# Antibody is reactive with the following antigens of M. tuberculosis: Lipoarabinomannan, ESAT 6, CFP10, 38 kDa, Antigen 16 (HspX), Hsp 65 (GroEl) and MoeX. Others not tested.