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Antibody Datasheet

Product Name: Mouse anti Chlamydia trachomatis MOMP

Clone number: 1656

Isotype: Mouse IgG2a

Product code: MAB12277

Batch Number:

Amount: 0.1mg

Concentration: 1 mg/ml

Buffer: Phosphate Buffered Saline pH7.2

Preservative: 0.09% Sodium Azide (NaN_3)

Purification: The antibody was purified by affinity chromatography on protein A

Immunogen: Partially purified MOMP from Chlamydia LGV2.

Specificity: This antibody is specific for major outer membrane protein (MOMP) of Chlamydia trachomatis. The antibody does not cross react with *Chlamydia pneumoniae* or Feline Chlamydia.

Applications: ELISA, IFA

Secondary reagents: Goat anti mouse IgG:HRP (PAB21441HRP)

Antigen background: *Chlamydia trachomatis* is a gram-negative obligate intracellular pathogen that belongs to the *Chlamydiaceae* family. *Chlamydia trachomatis* strains are divided into three biovars, which are further divided into fifteen serovars A, B, Ba, serovars C-K and serovars L1-L3. *Chlamydia trachomatis* serovars A-C cause eye infections known as trachoma. Serovars D-K are responsible for bacterial sexually transmitted genital tract infections in women and men. *Chlamydia trachomatis* serovars L1, L2 and L3 are responsible for a condition known as Lymphogranuloma venereum (LGV) (Elwell, C).

C.trachomatis infection of the genital tract is the most common cause of bacterial sexually transmitted disease in the United states (CDC). During its life cycle the bacterium alternates between two forms, the infectious elementary body (EB) and the reticulate body (RB), which is a non-infectious replicating form. Major outer membrane protein (MOMP) is the predominant protein found in the outer membrane of both EB and RB forms. MOMP is reported to play an important role in Chlamydia infection (Wang Y).

References:

Elwell C, Mirrashidi K, Engel J. 2016. Chlamydia cell biology and pathogenesis. Nat Rev Microbiol. Jun;14(6):385-400.

Centers for Disease protection and Control; Chlamydia - CDC factsheet

Wang Y et al (2006) Identification of surface-exposed components of MOMP of Chlamydia trachomatis serovar F. Protein Sci. Jan;15(1):122-34.

Storage: Store at +4^{0}C for up to three months, or at -20^{0}C for longer.

The Antibody is shipped at ambient temperature.
Avoid repeated freeze/thaw cycles.