

## Product datasheet for **AM31415PU-N**

### Chlamydia (LPS) Mouse Monoclonal Antibody [Clone ID: B352M]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	B352M
Applications:	ELISA
Recommended Dilution:	<b>ELISA:</b> Use this antibody AM31415PU-N (Clone B352M) as Capture and AM31413PU-N (Clone B351M) as Detection antibody.
Reactivity:	Chlamydia pneumoniae
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Chlamydia trachomatis elementary bodies. Source: Ascites
Specificity:	Specific to LPS of Chlamydia. Genus specific. Reactive with C. trachomatis, C. pneumoniae and C. psittaci.
Formulation:	0.01M PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and no stabilizing proteins State: Purified State: Liquid purified IgG fraction (> 90% pure by SDS-PAGE)
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



[View online »](#)

**Background:**

Chlamydia is caused by the bacterium *Chlamydia trachomatis*. The intracytoplasmic inclusions caused by the bacterium are draped around the infected cell's nucleus. *Chlamydia trachomatis* is an intracellular organism that has a genome size of approximately 500-1000 kilobases and contains both RNA and DNA. The organism is also extremely temperature sensitive and must be refrigerated at 4°C as soon as a sample is obtained. Colonization of *Chlamydia* begins with attachment to sialic acid receptors on the eye, throat or genitalia. It persists at body sites that are inaccessible to phagocytes, T cells, and B cells. It also exists as 15 different serotypes. These serotypes cause four major diseases in humans: endemic trachoma (caused by serotypes A and C), sexually transmitted disease and inclusion conjunctivitis (caused by serotypes D and K), and lymphogranuloma venereum (caused by serotypes L1, L2, and L3). Studies reveal that *Chlamydia*, because of its cell wall, is able to inhibit phagolysosome fusion in phagocytes. The cell wall is proposed to be Gram negative in that it contains an outer lipopolysaccharide membrane, but it lacks peptidoglycan in its cell wall. This lack of peptidoglycan is shown by the inability to detect muramic acid and antibodies directed against it. It may, however, contain a carboxylated sugar other than muramic acid. The proposed structure consists of a major outer membrane protein cross linked with disulfide bonds. It also contains cysteine rich proteins (CRP) that may be the functional equivalent to peptidoglycan. This unique structure allows for intracellular division and extracellular survival (Hatch 1996).

*Chlamydia* usually infects the cervix and fallopian tubes of women and the urethra of men. Chlamydial infections are believed to be one of the most common of all STDs. It is generally thought that in a population of 15 million, there are up to 300,000 cases of chlamydia each year. Thus, there are many undiagnosed cases of chlamydia in the community. It has been estimated that the true prevalence of chlamydia in the sexually active population may be in the order of 5% to 10%. *Chlamydia* is one of the leading causes of blindness in underdeveloped countries.