

Anti-Chlamydia trachomatis 6709 SP-5

Product overview

Catalog number	100073
Specificity	Antibody recognizes <i>Chlamydia trachomatis</i> LPS
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product buffer solution	0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Subclass	IgG _{2a}
Analyte description	<i>C. trachomatis</i> is an obligate intracellular pathogen and can cause numerous disease states in both men and women. Both sexes can display urethritis, proctitis, trachoma, and infertility. The bacterium can cause prostatitis and epididymitis in men. In women, cervicitis, pelvic inflammatory disease (PID), ectopic pregnancy, and acute or chronic pelvic pain are frequent complications. <i>C. trachomatis</i> is also an important neonatal pathogen, where it can lead to infections of the eye (trachoma) and pulmonary complications.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.7–7.5
Purity	≥ 95 %

Kinetic parameters

Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	N/D
Determination method	-
Determination antigen	-



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Cross-reactivities

Recognizes *C. pneumoniae* and *C. psittaci*.

Does not recognize *S. minnesota*, *B. quintana*, *B. henselae* or *S. negevensis*.

Epitope

Chlamydial LPS KDO-trisaccharide

Pair recommendations

		DETECTION		
		6701	6703	6709
CAPTURE	6701	-	-	-
	6703	-	-	-
	6709	+	-	-

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested

FIA

Antigens tested

N/D

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	N/D
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+30 °C, 21 days	OK
+35 °C, 7 days	OK
+35 °C, 21 days	Charge alterations
+45 °C, 3 days	Precipitation observed
+45 °C, 7 days	Reduced immunoreactivity

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous

Chlamydia LGV2 strain was used for immunization. Clone 6709 binds to chlamydial lipopolysaccharide (LPS) and therefore recognizes all chlamydias.

References

Tirola, T., Jaakkola, A., Bloigu, A., Paldanius, M., Sinisalo, J., Nieminen, M.S., Silvennoinen-Kassinen, S., Saikku, P., Jauhiainen, M. and Leinonen, M. (2006) Novel enzyme immunoassay utilizing lipopolysaccharide-binding protein as a capture molecule for the measurement of chlamydial lipopolysaccharide in serum. *Diag. Microbiol. Inf. Dis.* 54:7-12



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