

Product datasheet

anti-Chlamydia Multiepitope Cocktail mouse monoclonal, ACI, ICK, 502, FITC Conjugate

Short overview

Cat. No.	FR97457
Quantity	1.5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1 and IgG3
Clone	ACI, ICK, 502
Immunogen	Chlamydia antigen
Formulation	Lyophilized; reconstitute in 1.5 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4); contains Evans blue as counterstain
Conjugate	FITC
Purification	Affinity chromatography
Storage	2-8°C
Intended use	Research use only
Application	ICC/IF, IHC
Reactivity	Chlamydia genus

Applications

Immunocytochemistry (ICC)	Ready-to-use
Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use

Background

The multi-epitope cocktail detects the elementary bodies (EBs), reticulate bodies (RBs), intermediate forms, chlamydial inclusions and specific cell-associated anti-gen(s) directly in samples. The conjugate is used for direct immunofluorescence staining combining three specific monoclonal antibodies (mab) conjugated to fluo-rescein isothiocyanate (FITC). One mab is specific for the genus-specific epitope located on the Chlamydia LPS and identifies all the 15 known serovars of *C. trachomatis* as well as *C. psittaci* and *C. pneumoniae* by displaying bright fluorescence of intracellular inclusions and pin-point shaped extracellular organisms as well as free cell-associated chlamydial antigen(s). A second mab reacts with an epitope on the Chlamydia-outer membrane complex protein (60 kDa) and shows preferential fluorescence around the periphery of individual RBs of all serotypes of *C. trachomatis* and of *C. psittaci* strains; this antibody also stains the EBs of C-complex serovars as pin-point shaped structures. The third mab identifies a species-specific epitope on the major outer membrane protein (40 kDa) and shows brilliant fluorescence with EBs, RBs and cytoplasmic inclusions of B-complex serovars of *C. trachomatis*, whereas C-complex serovars show medium to weak fluorescence. The combination of these 3 specific mabs provides uniform and intense staining of all the stages in the developmental cycle of the known *C. trachomatis* serovars (A-C, D-K, L1-L3) and *C. psittaci* and *C. pneumoniae* strains. A positive cross-reactivity was also reported for

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Chlamydophila pecorum.

Contains Evans blue as counterstain.

Product images



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References

Publication	Species	Application
Kurihara, Y. et al. Chlamydia trachomatis targets mitochondrial dynamics to promote intracellular survival and proliferation. Cell.Microbiol. 21, e12962 (2019)	C. trachomatis	ICC-IF