



SERION antibodies

Humanized Monoclonal Anti-Toxoplasma gondii IgM Antibody

General information

Characterized disease state sera are critical components in the development and manufacture of diagnostic tests. Usually they are used as calibrators and controls. However, sourcing of these sera is complicated, time-consuming and sometimes suitable material is not available at all. As an alternative SERION Immunologics offers humanized monoclonal antibodies (mABs). They perform like corresponding reference sera, show high specificity and are available in unlimited quantities with constant quality.

Toxoplasma gondii: Diagnostic relevance

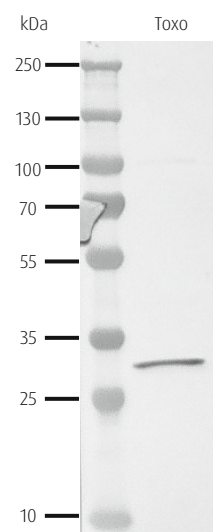
Toxoplasma gondii is an obligate intracellular parasite that causes the disease toxoplasmosis. In humans, *T. gondii* is one of the most common parasites in developed countries. While most infections proceed subclinically, in 1 % of infected children and young adults complications such as myocarditis, meningitis or pneumonia are reported. Therefore, diagnosis for *Toxoplasma* infections during pregnancy is of significant importance in prenatal care. The Anti-*Toxoplasma gondii* IgM mAB is of greatest value for the diagnosis of the disease and can be used as calibrator and control in diagnostic tests.

Product Description	Order No.	Clone
Anti-Toxoplasma gondii monoclonal antibody, IgM, chimeric	MAB110.001	A13H1E4

Western Blot

By blotting the *Toxoplasma gondii* Antigen followed by immunodetection using the monoclonal antibody MAB110.001, the high specificity of this antibody is shown (Figure 1).

Figure 1: *Toxoplasma gondii* Antigen detection using MAB110.001



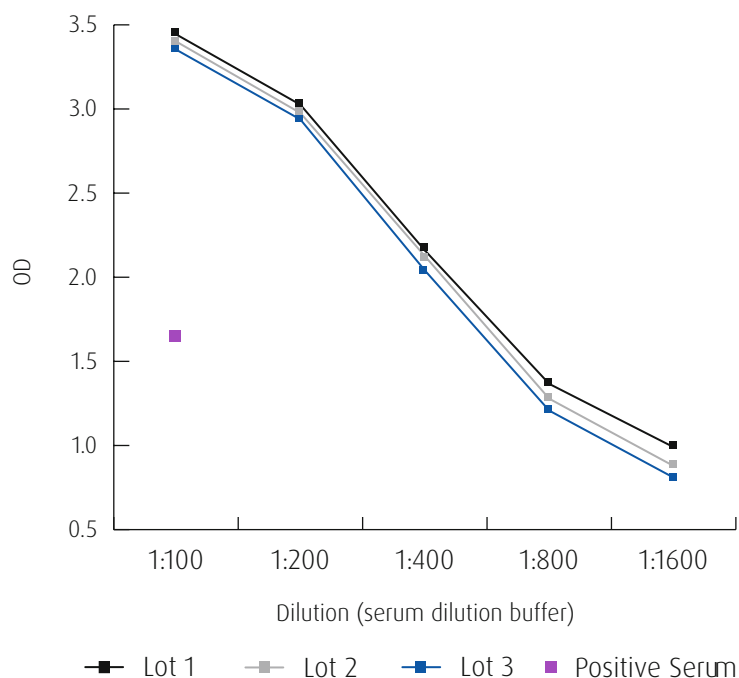
ELISA performance

The antibody has been extensively tested and behaves similar to human serum in the analyzed systems. It can be diluted in different matrices, shows no sensitivity to the addition of Rheumatoid factor absorbent and is highly specific.

Table 1

	Dilution	MV OD	U/mL
	STD	0.730	502.5
	NC	0.144	<100
Lot 1	1:100	3.463	>5000
	1:200	2.995	>5000
	1:400	2.230	3069.4
	1:800	1.431	1308.9
	1:1600	0.839	602.0
Lot 2	1:100	3.444	>5000
	1:200	2.969	>5000
	1:400	2.016	2454.3
	1:800	1.260	1070.9
	1:1600	0.721	494.6
Lot 3	1:100	3.395	>5000
	1:200	2.841	>5000
	1:400	2.039	2514.0
	1:800	1.209	1006.6
	1:1600	0.653	436.3
Positive Serum	1:100	1.812	1982.5

Figure 2



Related Products

Monoclonal Antibodies (ToRCH panel)

Product Description	Order No.	Clone
Anti-Cytomegalovirus (CMV) monoclonal antibody, IgM, chimeric	MAB109.001	Z11E4F7
	MAB109.002	Z3A3B8
Anti-HSV-1/2 monoclonal antibody, IgM, chimeric	MAB105.001	K11A12D11
Anti-Rubella monoclonal antibody, IgM, chimeric	MAB129.001	B16B11F8
	MAB129.002	A7A11H3

Antigen

Product Description	Order No.
Toxoplasma gondii Antigen	BA110VS

Plasma (recalcified)

Specificity	Order No.
Toxoplasma gondii IgA-positive	PLS110A
Toxoplasma gondii IgG-positive	PLS110G
Toxoplasma gondii IgM-positive	PLS110M
Toxoplasma gondii IgG-negative	PLS110GN

ELISA

Product Description	Order No.
SERION ELISA classic Toxoplasma gondii IgM	ESR110M

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