



## Autoantibodies in cardiovascular diseases

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**Dressler's syndrome, post myocardial infarction syndrome**

**Cardiac rhythm disease**

**Hypertonia maligna**

**Cardiomyopathies**

**Myocarditis**


**Chagas' myocarditis**

**Risk of myocardial infarction**

**Congenital heartblock**

**Preeclampsia**

**Literature**

- Diagnostic marker with pathogenetic significance
  - Diagnostic marker for indicated disease
  - Colored circles indicate markers for primary screening
  - Indicative autoantibody
  - Occasionally associated autoantibodies with marker function for other diseases
  - Autoantibodies, which may be found randomly associated but without disease specificity and without any diagnostic significance for the disease mentioned.
- ▶ Cited **literature** is marked with **red** numbers and linked with the authors given at the end of the document. By clicking the hand symbol (  ) one returns to the top of the table.
- ▶ **Autoantibodies** cited in the following tables are linked with their respective descriptions.
- ▶ The indicated values of **sensitivity** and **specificity** crucially depend on the respective test methods, on genetic and ethno-geographical variables and on the selection of tested patient and control populations, which is reflected by the considerable variations of the indicated data. Therefore the given figures may be regarded as an approximate guide for the selection of adequate tests for a given clinical situation. For this reason also qualitative estimates such as "low", "medium" or "high" were used.



## Autoantibodies in cardiovascular diseases

### Dressler's syndrome, post myocardial infarction syndrome

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● <a href="#">Heart muscle-IIFT</a>			

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## Autoantibodies in cardiovascular diseases



### Abbreviations

Sens	Sensitivity
Spec	Specificity
IIFT	Indirect immunofluorescence test

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## Autoantibodies in cardiovascular diseases



### Cardiac rhythm disease

Autoantibodies	Sens [%]	Spec [%]	Disease associations
• <a href="#">β<sub>1</sub>-Adrenoceptor</a>			
• <a href="#">β<sub>2</sub>-Adrenoceptor</a>			

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## Autoantibodies in cardiovascular diseases



### Abbreviations

Sens	Sensitivity
Spec	Specificity

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## Autoantibodies in cardiovascular diseases

### Hypertonia maligna

Autoantibodies	Sens [%]	Spec [%]	Disease associations
• <a href="#">α<sub>1</sub>-Adrenoceptor</a>			
• <a href="#">Angiotensin II type 1-receptor</a>			

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## Autoantibodies in cardiovascular diseases



### Abbreviations

Sens	Sensitivity
Spec	Specificity

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## Autoantibodies in cardiovascular diseases

### Cardiomyopathies

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● <a href="#">Heart muscle-IIFT</a>			

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## Autoantibodies in cardiovascular diseases



### Abbreviations

Sens	Sensitivity
Spec	Specificity
IIFT	Indirect immunofluorescence test

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## Autoantibodies in cardiovascular diseases

### Myocarditis

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● <a href="#">β<sub>1</sub>-Adrenoceptor</a>			

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## Autoantibodies in cardiovascular diseases



### Abbreviations

Sens	Sensitivity
Spec	Specificity

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## Autoantibodies in cardiovascular diseases

### Chagas' myocarditis

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● <a href="#">β<sub>2</sub>-Adrenoreceptor</a>			
● <a href="#">M2 mACholine receptor</a>			
● <a href="#">Adenine nucleotide translocase</a>			
● <a href="#">Laminin</a>			
● <a href="#">Sarkosindehydrogenase</a>			
● <a href="#">Myosin</a>			
● <a href="#">Desmin</a>			

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### Abbreviations

Sens	Sensitivity
Spec	Specificity

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## Autoantibodies in cardiovascular diseases

### Risk of myocardial infarction

Autoantibodies	Sens [%]	Spec [%]	Disease associations
See: <a href="#">Antiphospholipid syndrome</a>			

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## Autoantibodies in cardiovascular diseases



### Abbreviations

Sens	Sensitivity
Spec	Specificity

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## Autoantibodies in cardiovascular diseases

### Congenital heartblock

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● <u>SS-A/Ro</u>			
● <u>SS-B/La</u>			
● <u><math>\beta_1</math>-Adrenoceptor</u>			
● <u>M<sub>1</sub> mAcetylcholine receptor</u>			
● <u>M<sub>2</sub> mAcetylcholine receptor</u>			

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## Autoantibodies in cardiovascular diseases



### Abbreviations

Sens	Sensitivity
Spec	Specificity
SS-A/Ro	Sjögren's syndrom antigen A
SS-B/La	Sjögren's syndrom antigen B

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## Autoantibodies in cardiovascular diseases

### Preeclampsia

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● <a href="#">Angiotensin II type 1-receptor</a>			1

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## Autoantibodies in cardiovascular diseases



### Abbreviations

Sens	Sensitivity
Spec	Specificity

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### Literature

#### Preeclampsia

- 1 Wallukat G, Homuth V, Fischer T, Lindschau C, Horstkamp B, Jüpner A, Baur E, Nissen E, Vetter K, Neichel D, Dudenhausen JW, Haller H, Luft FC: Patients with preeclampsia develop agonistic autoantibodies against the angiotensin AT1 receptor. *J Clin Invest* (1999); 103: 945 - 952 (PMID: [10194466](#)).

