

Autoantibodies in autoimmune polyendocrine syndromes

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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.



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Autoimmune polyendocrinopathy type 1 (APS-1, APECED*)

Autoantibodies	Sens [%]	Spec [%]	Disease associations
● Adrenal-IIFT			
● Steroid 21-hydroxylase (CYP-C21)			
● Steroid 17 α-hydroxylase (CYP-C17)			
● Side-chain cleavage enzyme (P450scc)			
● Liver microsomes P450-1A2			
● Steroid hormone-producing cells			
● Interferon-ω			
● Interferon-α2			
● Interferon-α8			
● Tryptophan hydroxylase 1	51		3
● Tyrosin hydroxylase			
● Phenylalanine hydroxylase			
● AADC	51		3
● H ⁺ /K ⁺ -ATPase			
● Calcium sensing receptor			
● Glutamate decarboxylase			
● Islet cell autoantibodies (ICA)			
● IA-2			
● Insulin			
● TSH receptor			
● Thyroideaperoxidase			
● Thyreoglobulin			
● Defensin-5	28		1, 2
● Harmonin (AIE-75)	33		3
● Villin	29		3
● Paneth cells	20		3
● brush border-IIFT (intestine)	29		3

* APECED: **A**utoimmune **P**olyendocrinopathie, **C**andidiasis, **e**ktodermale **D**ysplasie

☞ Index of diseases

☞ Abbreviations



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Abbreviations

Sens	Sensitivity
Spec	Specificity

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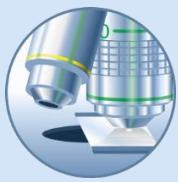
Autoimmune polyendocrinopathy type 2 (APS-2)

Autoantibodies	Sens [%]	Spec [%]	Disease associations

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Autoimmune polyendocrinopathy type 3 (APS-3)

Autoantibodies	Sens [%]	Spec [%]	Disease associations

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Autoimmune polyendocrinopathy type 4 (APS-4)

Autoantibodies	Sens [%]	Spec [%]	Disease associations

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Abbreviations



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Literature

APS-1, APECED

- 1 Dobeš J, Neuwirth A, Dobešová M, Vobořil M, Balounová J, Ballek O, Lebl J, Meloni A, Krohn K, Kluger N, Ranki A, Filipp D: Gastrointestinal Autoimmunity Associated with Loss of Central Tolerance to Enteric α -Defensins. *Gastroenterology* (2015); pii: S0016-5085(15)00681-2. doi:10.1053/j.gastro.2015.05.009. [Epub ahead of print] PubMed (PMID: [25982289](#)). 
- 2 Ghosh D, Porter E, Shen B, Lee SK, Wilk D, Drazba J, Yadav SP, Crabb JW, Ganz T, Bevins CL: Paneth cell trypsin is the processing enzyme for human defensin-5. *Nat Immunol* (2002); 3(6): 583 - 590 (PMID: [12021776](#)). 
- 3 Kluger N, Jokinen M, Lintulahti A, Krohn K, Ranki A: Gastrointestinal immunity against tryptophan hydroxylase-1, aromatic L-amino-acid decarboxylase, AIE-75, villin and Paneth cells in APECED. *Clin Immunol* (2015); 158(2): 212 - 220 (PMID: [25805658](#)). 