



Anti-Argonaute 2 (Su) autoantibodies

Antigen

► **Ago 2** (micro-RNA-binding protein Argonaute 2; 100 kDa) in GW-bodies

► Alternative description of the antigens:

Su Treadwell et al. 1984

MoS Kaburaki et al. 1984

Tu Ondera et al. 1986

Prevalence

Diseases		Authors
Systemic lupus erythematoses	3 - 24 %	Treadwell et al 1984
Systemic Sclerosis	3 - 32 %	Kaburaki et al. 1984 * Ondera 1986 *
Polymyositis / Dermatomyositis	4 - 9 %	Satoh et al. 1994
Rheumatoide arthritis	7 - 9 %	Vasquez-Del-Mercado et al 2010
Sjögren syndrome	8 - 12 %	Ceribelli et al. 2011
MCTD-Overlap	18 - 40 %	
UCTD	21 - 27 %	
HCV	5 %	
Anti-phospholipid syndrome	13 %	

* cited from Satoh et al. 2013

Literature

Ceribelli A, Tincani A, Cavazzana I, Franceschini F, Cattaneo R, Pauley BA, Chan JY, Chan EK, Satoh M: Anti-argonaute2 (Ago2/Su) and -Ro antibodies identified by immunoprecipitation in primary anti-phospholipid syndrome (PAPS). *Autoimmunity* (2011); 44(2): 90 - 97 (PMID: [20695766](#)).

Treadwell EL, Alspaugh MA, Sharp GC: Characterization of a new antigen-antibody system (Su) in patients with systemic lupus erythematosus. *Arthritis Rheum* (1984) 27(11): 1.263 - 1.271 (PMID: [6497921](#)).

Satoh M, Langdon JJ, Chou CH, McCauliffe DP, Treadwell EL, Ogasawara T, Hirakata M, Suwa A, Cohen PL, Eisenberg RA, et al: Characterization of the Su antigen, a macromolecular complex of 100/102 and 200-kDa proteins recognized by autoantibodies in systemic rheumatic diseases. *Clin Immunol Immunopathol* (1994); 73(1): 132 - 141 (PMID: [7923910](#)).

Satoh M, Chan JY, Ceribelli A, Vazquez del-Mercado M, Chan EK: Autoantibodies to Argonaute 2 (Su antigen). *Adv Exp Med Biol* (2013); 768: 45 - 59 (PMID: [23224964](#)).

Vázquez-Del Mercado M, Sánchez-Orozco LV, Pauley BA, Chan JY, Chan EK, Panduro A, Maldonado González M, Jiménez-Luévanos MA, Martín-Márquez BT, Palafox-Sánchez CA, Dávalos-Rodríguez IP, Salazar-Páramo M, González-López L, Gámez-Nava JI, Satoh M: Autoantibodies to a miRNA-binding protein Argonaute2 (Su antigen) in patients with hepatitis C virus infection. *Clin Exp Rheumatol* (2010); 28(6): 842 -848 (PMID: [21122261](#)).