



## Anti-CarP autoantibodies

### Acronyms

CarP: carbamylated Protein

### see also

► [Autoantibodies in rheumatoid arthritis](#)

### Prevalence

Rheumatoid arthritis, future onset of RA

### Literature

Gan RW, Trouw LA, Shi J, Toes RE, Huizinga TW, Demoruelle MK, Kolfenbach JR, Zerbe GO, Deane KD, Edison JD, Gilliland WR, Norris JM, Holers VM: Anti-carbamylated Protein Antibodies Are Present Prior to Rheumatoid Arthritis and Are Associated with Its Future Diagnosis. *J Rheumatol* (2015); [Epub ahead of print] (PMID: [25593232](#)).

Shi J, van de Stadt LA, Levarht EW, Huizinga TW, Hamann D, van Schaardenburg D, Toes RE, Trouw LA: Anti-carbamylated protein (anti-CarP) antibodies precede the onset of rheumatoid arthritis. *Ann Rheum Dis* (2014); 73(4): 780 - 783 (PMID: [24336334](#)).

Shi J, van de Stadt LA, Levarht EW, Huizinga TW, Toes RE, Trouw LA, van Schaardenburg D: Anti-carbamylated protein antibodies are present in arthralgia patients and predict the development of rheumatoid arthritis. *Arthritis Rheum* (2013); 65(4): 911 - 915 (PMID: [23279976](#)).

Shi J, van Veelen PA, Mahler M, Janssen GM, Drijfhout JW, Huizinga TW, Toes RE, Trouw LA: Carbamylation and antibodies against carbamylated proteins in autoimmunity and other pathologies. *Autoimmun Rev* (2014); 13(3): 225 - 230 (PMID: [24176675](#)).