

Citrullinated Antithrombin III Antibody

#Cat: NB-19-0011

Size: 50ul

Immunogen Data

Description: Antithrombin is a plasma glycoprotein with a key anticoagulant role as inhibitor of thrombin and FXa. Its deficiency increases the risk of venous thrombosis and its complete deficiency is lethal to mice embryo (1). Citrullination is a post-translational modification of arginine residues of proteins into citrulline (2). Citrullination of antithrombin causes its loss of function (3). Increased amounts of citrullinated antithrombin has been found in patients with cancer (4) and may contribute to pathogenesis of rheumatoid arthritis (5, 6).

Immunogen:

Alternative names: Human citrullinated antithrombin

UniProt ID: P01008.

Mol. Weight: 58 kDa

Antibody Data

Host/Isotype: Mouse IgG1.

Clone: 3B6B4ii

Species Reactivity: Human. Its reactivity against other species has not been determined.

Volume: 50 µl

Purity: Tissue culture supernatant.

Storage Buffer: Without preservatives.

Storage Instruction: Aliquot and store at -20°C for short term or -80°C for long term. Avoid freeze-thaw cycles.

Tested applications

Western Blot and Elisa. The usefulness of this product in other applications has not been determined.

Recommended Dilutions:

WB: 1:2000

ELISA: 1:800

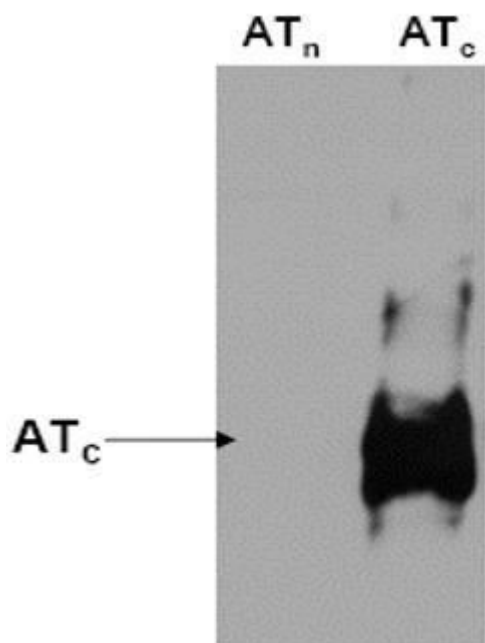
Background references

- (1) Ishiguro K. et al. (2000) *J Clin Invest.* 106, 873-8
- (2) Vossenaar E.R. et al (2003) *Bioessays.* 25:1106-18
- (3) Chang, X. et al. (2005) *Rheumatology.* 44, 293-298.
- (4) Pike, R. N. et al. (1997) *J. Biol. Chem.* 272, 19652-19665.
- (5) Chang, X. et al. (2009) *BMC Cancer.* 9:40.

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Applicated references

Ordóñez A. et al. (2009) FEBS Journal, 2009 (in press).



1. Western blot analysis against Citrullinated Antithrombin. Human antithrombin purified from plasma, non-citrullinated (AT_n) or citrullinated (AT_c) with PAD (Peptidyl arginyl deiminase from Sigma). ECL revealing method was used.