

Antiphospholipid Syndrome

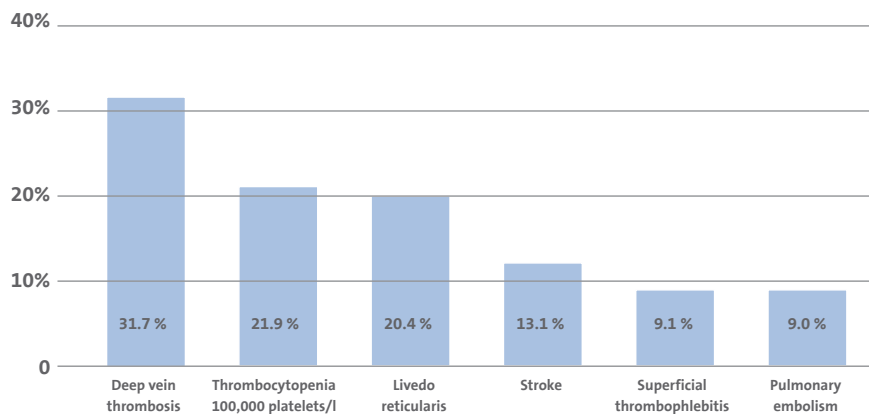
Autoantibodies provoking thrombosis

What is APS?

Antiphospholipid syndrome (APS) is a systemic autoimmune condition that is characterized by moderate to high titers of autoantibodies against phospholipids (aPL) and phospholipid-binding proteins. The risk for arterial, venous or small vessel thrombosis, thrombocytopenia and fetal loss is strongly increased in APS patients. In the general population, antiphospholipid antibodies can be found in one out of five patients who suffered from a stroke at an age below 50.

52% of COVID-19 patients show aPL antibodies

Clinical features at disease onset in 1,000 patients with APS*

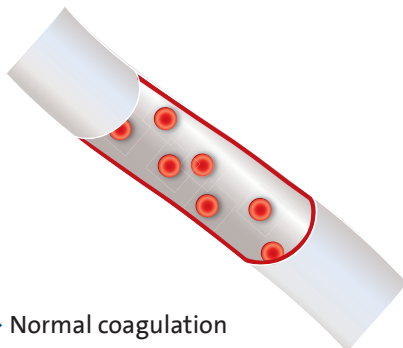


* Some patients present several associated manifestations.

The risk of thrombosis is three times higher in APS patients¹

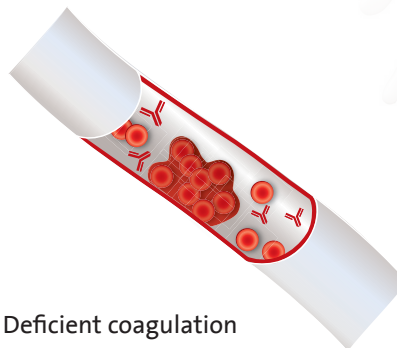
Healthy individual

No risk of thrombosis



Patient with APS

High risk of thrombosis



Antiphospholipid Syndrome

In which cases is antiphospholipid auto-antibody testing recommended?

- > History of systemic lupus erythematosus (SLE) or other autoimmune diseases
- > Presence of livedo reticularis
- > Prolonged activated partial thromboplastin time (aPTT) prior to starting anticoagulation
- > Recurrent thrombosis
- > Venous thromboembolism at unusual sites
- > History of arterial thrombosis without clear risk factors
- > Thrombocytopenia
- > Cardiac valve abnormalities in the absence of other explanations

COVID-19 patients have a risk to develop aPL antibodies²

APS in COVID-19 patients can be triggered through several mechanisms, for example, molecular mimicry of the SARS-CoV-2 with beta2-glycoprotein (β 2GPI), which leads to the production of aPL like anti- β 2GPI antibodies.^{3,4}

Ordering information

Name	Format	REF
PHOSPHOLIPID-ANTIBODIES SCREEN	IgG/IgM	ITC59070
CARDIOLIPIN-ANTIBODIES SCREEN	IgG/IgA/IgM	ITC59076
CARDIOLIPIN-ANTIBODIES COMBI	IgG/IgM	ITC59082
CARDIOLIPIN-ANTIBODIES IgG	IgG	ITC59071
CARDIOLIPIN-ANTIBODIES IgM	IgM	ITC59081
PHOSPHATIDYLSERINE-ANTIBODIES SCREEN	IgG/IgA/IgM	ITC59027
PHOSPHATIDYLSERINE-ANTIBODIES IgG	IgG	ITC59011
PHOSPHATIDYLSERINE-ANTIBODIES IgM	IgM	ITC59021
PHOSPHATIDYLETHANOLAMINE-ANTIBODIES SCREEN	IgG/IgA/IgM	ITC59400
BETA2-GLYCOPROTEIN 1-ANTIBODIES SCREEN	IgG/IgA/IgM	ITC59050
BETA2-GLYCOPROTEIN 1-ANTIBODIES IgG	IgG	ITC59150
BETA2-GLYCOPROTEIN 1-ANTIBODIES IgM	IgG	ITC59250
PROTHROMBIN-ANTIBODIES SCREEN	IgG/IgA/IgM	ITC59450
ANNEXIN V-ANTIBODIES SCREEN	IgG/IgA/IgM	ITC59550



References

1. Liu L., Sun D., Medicine, 2019, 98(20), e15733
2. Zuo et al., Sci Transl Med., 2020, 12 (570), eabd3876
3. Gharavi AE, Pierangeli SS, Lupus., 1998, 7, Suppl 2, 52-54
4. Tung et al., Rheumatol Adv Pract., 2021, 5 (1), rkaa081

