



Datasheet for ABIN1326805

## Anti-Cardiolipin Antibody ELISA Kit



[Go to Product page](#)

### 1 Publication

#### Overview

Quantity:	96 tests
Target:	Anti-Cardiolipin Antibody (ACA)
Binding Specificity:	Whole Molecule
Reactivity:	Human
Method Type:	Competition ELISA
Application:	ELISA

#### Product Details

**Purpose:** Diluted patient serum is added to wells coated with purified aCL antigen. aCL specific antibody, if present, binds to the antigen. All unbound materials are washed away and the enzyme conjugate is added to bind to the antibody-antigen complex, if present. Excess enzyme conjugate is washed off and substrate is added. The plate is incubated to allow the hydrolysis of the substrate by the enzyme. The intensity of the color generated is proportional to the amount of specific antibody in the sample.

Sample Type:	Serum
Analytical Method:	Qualitative
Detection Method:	Colorimetric

#### Target Details

Target:	Anti-Cardiolipin Antibody (ACA)
Abstract:	<a href="#">ACA Products</a>

## Target Details

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Target Type: Antibody

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Background: Measurement of IgG, IgM and IgA cardiolipin autoantibodies (aCL) by EIA is the standard procedure for the detection of antiphospholipid antibodies (aPL) in patients with suspected antiphospholipid syndrome (APS). High aCL concentrations are associated with increased risk of venous and arterial thrombosis, recurrent pregnancy loss and thrombocytopenia. Patients with the anti-cardiolipin syndrome have one of the above clinical features and have antibodies to cardiolipin and/or a positive lupus anticoagulant test. The antibodies present to cardiolipin may be of the IgG, IgA, IgM isotypes. Testing for the various antibody isotypes to cardiolipin aid in diagnosis of the anti-phospholipid syndrome in patients with SLE or lupus-like disorders. Binding of aCL to CL in patients with autoimmune diseases is dependent on the presence of the cofactor  $\beta_2$ -glycoprotein I ( $\beta_2$ -GPI) this binding is independent of  $\beta_2$ -GPI in patients with infectious diseases (e.g., syphilis, tuberculosis). Recognition of the role of  $\beta_2$ -GPI in the binding of aCL led to development of assay for direct measurement of  $\beta_2$ -GPI autoantibodies using  $\beta_2$ -GPI as antigen, allowing a clear distinction between  $\beta_2$ -GPI autoantibodies and those that bind to CL alone.

## Application Details

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Plate: Pre-coated

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Restrictions: For Research Use only

## Handling

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Storage: 4 °C

## Publications

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Product cited in: Qiu, Dao, Wang, Heston, Garcia, Sangal, Dowling, Faulkner, Molitor, Elias, Hill: "Insulin and Leptin Signaling Interact in the Mouse Kiss1 Neuron during the Peripubertal Period." in: **PLoS ONE**, Vol. 10, Issue 5, pp. e0121974, (2015) ([PubMed](#)).

Finley, Zhang, Fewell: "Sex steroid levels near the term of pregnancy do not alter lipopolysaccharide-induced fever in oophorectomized rats." in: **Experimental physiology**, Vol. 100, Issue 3, pp. 323-30, (2015) ([PubMed](#)).

Dakin, Walker, Seckl, Hadoke, Drake: "Estrogens protect male mice from obesity complications and influence glucocorticoid metabolism." in: **International journal of obesity (2005)**, (2015) (

[PubMed](#)).

Bhardwaj, Du, Zhou, Sue, Giri, Harbus, Falcone, Hudis, Subbaramaiah, Dannenberg: "Estrogen Protects against Obesity-Induced Mammary Gland Inflammation in Mice." in: **Cancer prevention research (Philadelphia, Pa.)**, Vol. 8, Issue 8, pp. 751-9, (2015) ([PubMed](#)).

Rattanasopa, Phungphong, Wattanapermpool, Bupha-Intr: "Significant role of estrogen in maintaining cardiac mitochondrial functions." in: **The Journal of steroid biochemistry and molecular biology**, Vol. 147, pp. 1-9, (2015) ([PubMed](#)).