



## User's Manual

# Anti-Annexin V ELISA Kit



DEIABL314A



96T



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

---

### Creative Diagnostics

 Address: 45-1 Ramsey Road, Shirley, NY 11967, USA

 Tel: 1-631-624-4882 (USA) 44-161-818-6441 (Europe)  Fax: 1-631-938-8221

 Email: [info@creative-diagnostics.com](mailto:info@creative-diagnostics.com)  Web: [www.creative-diagnostics.com](http://www.creative-diagnostics.com)

---

## PRODUCT INFORMATION

### Intended Use

The human anti-Annexin V ELISA is an enzyme-linked immunosorbent assay for the quantitative detection of antibodies to human Annexin V (Vac- ). The human anti-Annexin V ELISA is for research use only. Not for diagnostic or therapeutic procedures.

### General Description

Annexins are a family of calcium-dependent phospholipid-binding proteins. All annexins have been shown to have putative binding site for protein kinases C but only annexin V would possess a potential pseudo-substrate site. Thus annexin V seems to modulate the activity of some PKCs on their substrates.

Annexin V was found to play a major role in matrix vesicle-initiated cartilage calcification as a collagen-regulated calcium channel. Annexin Vs preferential binding partner is phosphatidylserine (PS). PS is predominantly located in membrane leaflets, which face the cytosol. However, recent findings show that each cell type has the molecular machinery to expose PS at its cell surface. This machinery is activated during the execution of apoptosis. Once PS is exposed at the cell surface it exhibits procoagulant and proinflammatory activities. Annexin V will bind to the PS-exposing apoptotic cell and can inhibit the procoagulant and proinflammatory activities of the dying cell. These findings together with the presence of Annexin V in the extracellular space depict a novel pathophysiological significance for Annexin V in vivo.

The occurrence of autoantibodies to annexin V has been described in several pathological disorders. It is concluded that extracellular annexin V provides an antigenic stimulus for autoantibody production. Such autoantibodies may have a detrimental role interfering with putative functions of annexin V.

### Storage

2-8°C

### Precision

Dilution Scheme	Tracer Antibody Diluent	Tracer Antibody
1	1 mL	50 µL
2	2 mL	100 µL
3	3 mL	150 µL
4	4 mL	200 µL
5	5 mL	250 µL
6	6 mL	300 µL
7	7 mL	350 µL
8	8 mL	400 µL
9	9 mL	450 µL
10	10 mL	500 µL
11	11 mL	550 µL
12	12 mL	600 µL

Well I.D.	OD 450/620 nm Absorbance		
	Readings	Average	Corrected
0	0.016	0.016	0.000
ng/mL	0.015		
10.0	0.128	0.147	0.131
ng/mL	0.166		
25.0	0.335	0.334	0.141
ng/mL	0.332		
62.4	0.851	0.815	0.799
ng/mL	0.779		
156.0	1.752	1.654	1.638
ng/mL	1.555		
390.0	2.820	3.330	3.314
ng/mL	3.840		

## Detection Range

6.25 - 400 ng/mL

## Sensitivity

1.2 ng/ml



Tel: 1-631-624-4882 (USA)

Tel: 44-161-818-6441 (Europe)



Fax: 1-631-938-8221



Email: [info@creative-diagnostics.com](mailto:info@creative-diagnostics.com)