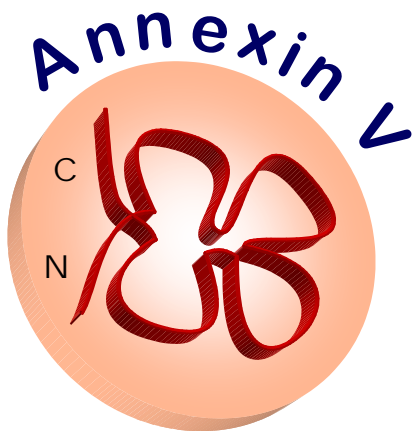


## ZYMUTEST ANNEXIN V

### Research Reagent

Ref. **ARK004A**



#### A new reliable assay for:

- **Measuring Annexin V in human plasma**
- **Quality control of platelet and blood cell concentrates**



#### What is Annexin V?

- 35 KDa, Ca<sup>++</sup> dependent, protein.
- Present in many tissues (endothelial cells, placenta,...).
- Present in platelets (5.9 10<sup>-16</sup> g/cell) and, at higher concentration, in red blood cells and leukocytes.
- Binds to anionic phospholipids via Ca<sup>++</sup>.
- Inhibits blood coagulation and phospholipase A<sub>2</sub>.
- Regulates exocytosis and interacts with cytoskeletal proteins.
- Inhibits pro-coagulant and pro-inflammatory activities of dying cells during apoptosis.



#### Diagnostic value of Annexin V assay:

- Autoimmune diseases and Systemic Lupus Erythematosus (SLE) (10 to > 250 ng/mL).
- Early stage of myocardial infarction (10 to > 50 ng/mL).
- Hepatic disorders (10 to > 100 ng/mL).
- Follow-up of patients treated with annexin V.
- Apoptosis.



#### Expected concentrations in normals:

- Normal range in human plasma: < 10 ng/mL.



#### Storage of platelet and blood cell concentrates:

- Released Annexin V during platelet storage correlates with EDTA induced shape change.  
« P. Krailadsiri et al.: *Transf.Sci.*; 1997 »
- Annexin V increases from 16.0 ng/mL (± 13.31) to 33.68 ng/mL (± 20.22) during a 5-6 day platelet concentrate storage. « P. Krailadsiri et al.: *Transf.Sci.*; 1997 »

# Blood activation Thromboembolic and cardiovascular disease markers, and anticoagulant proteins

## ZYMUTEST ANNEXIN V (Ref. **ARK004A**)

### Kit presentation

### Two site ELISA

No interference of  
rheumatoid factor

Tested specimen:  
platelet or blood cell  
supernatants (tested  
diluted at 1:2 or 1:5,...)

Trisodium citrate or  
Na<sub>2</sub>EDTA  
anticoagulated human  
plasma

### Quality control

Storage of platelet  
and blood cell  
concentrates

### Other products

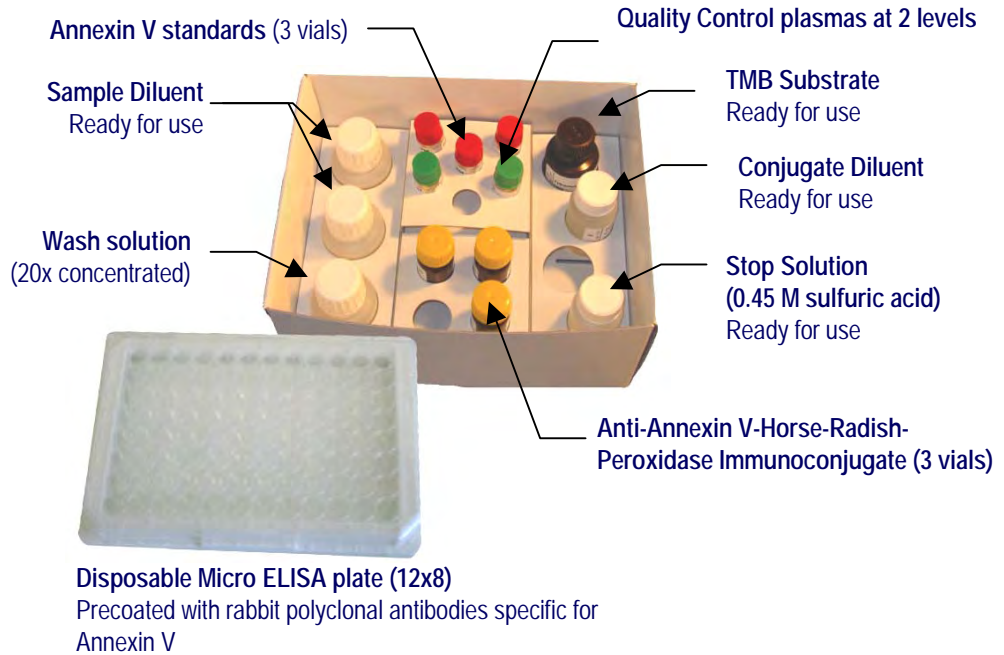
ZYMUTEST Factor V - **ARK009A**

ZYMUTEST PF4 - **ARK006A**

ZYMUTEST FPA - **ARK016A**

ZYMUTEST **HS-CRP** - **ARK010A**

ZYMUTEST DDimers - **ARK023A**



### Assay characteristics

- Total assay time: < 2h15 min
- Detection threshold: 0.1 ng/mL
- Dynamic range: 0.1 to 120 ng/mL
- Intra-assay CV: 1 to 5%
- Inter-assay CV: 2.5 to 8%

Form AH23  
05-2010

Feb 2005/REF 009