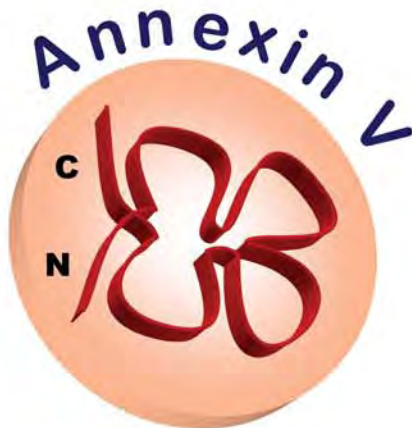


## ZYMUTEST ANNEXIN V

### 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 »

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