



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

# Certificate of Analysis and Data Sheet RECOMBINANT Human ANNEXIN V

**Catalog No.**  
DS-01-0498

**Target Species**  
Human

## Preparation

**Synonyms:** ANX5, ENX2, PP4

**Preparation:** Purified recombinant Annexin V expressed in *E.coli*.

## Formulation

**Product Form:** Purified recombinant protein - lyophilized

**Reconstitution:** Reconstitute with 1.0ml distilled water at 30°C for 5 minutes.

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial.

**Buffer Solution:** 20mM Phosphate buffer, 0.02% Tween 80, 130mM Arginine HCl

**Approx. Protein Concentrations:** Total protein concentration 30ug/ml after reconstitution

**Molecular Weight:** 35.8 KDa

**Preservative Stabilizers:** None present

## Description

Annexin V is a phospholipid binding protein which binds with high affinity and selectivity to phosphatidylserine (PS), in the presence of calcium. The translocation of PS from the cytosolic leaflet to the outer leaflet of the plasma membrane, due to a loss in plasma membrane asymmetry during apoptosis, acts as an in vivo signal for the removal of the dying cell by phagocytosis.

Detection of PS using Annexin V provides a reliable diagnostic tool for the indication of early programmed cell death. RayBiotech recommends the use of ANNEX100F, ANNEX100B, ANNEX300F and ANNEX300B for this purpose.

Annexin V has also been identified as an inhibitor of prothrombin activation in the blood coagulation cascade, and the presence of antibodies to Annexin V are associated with systemic lupus erythematosus (SLE), recurrent spontaneous abortions and systemic sclerosis (SSc).

## Storage

Prior to reconstitution store at +4°C.

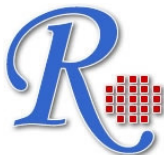
After reconstitution store at -20°C.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 6 months from date of reconstitution.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

### **Purity**

>98% by SDS PAGE/HPLC analysis

### **Applications**

**Table Summary of protein applications and working conditions**

<b>Options Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
In vitro Assay	•			
Western Blotting			•	
ELISA			•	

**Note: Optimal dilutions should be determined by each laboratory for each application.**

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**