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# Biotin Human Annexin V Protein

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| **Catalog Number:** | 604203, 604204 |
| **Size:** | 25 tests, 100 tests |
| **Target Name:** | Annexin A5 |
| **Regulatory Status:** | RUO |

## PRODUCT DETAILS

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| **Application:** | Flow Cytometry |
| **Format:** | Biotin |
| **Expression Host:** | E.coli |
| **Species:** | Human |
| **accession number:** | P08758 |
| **Sources:** | Recombinant Human Annexin A5 (Met1-Asp320) with N-His-Xa tag is expressed in E.coli system. His tag is cut by Xa after purification. This protein is biotinylated in vitro. |
| **Molecular Weight:** | This protein has a predicted molecular weight of 35.9 kDa. Under DTT-reducing conditions, the protein migrates at approximately 35 kDa on SDS-PAGE. |
| **Affinity Tag:** | None |
| **Purity:** | >95% based on SDS-PAGE under reducing condition |
| **Formulation:** | 1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein |
| **Protein Concentration:** | Supplied at a lot-specific concentration. |
| **Storage and Handling:** | The protein solution should be stored undiluted between 2°C and 8°C. Do not freeze. |
| **Recommended Usage:** | For flow cytometric staining, it is recommended to use 5 µL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application. |

## BACKGROUND INFORMATION

Annexin A5 is a member of the annexin family, a group of proteins that bind negatively charged phospholipids in a calcium-dependent manner. During apoptosis, phosphatidylserine (PS) translocates to the outer leaflet of the plasma membrane. Annexin A5 specifically binds to this exposed PS, making it a widely used marker for early apoptosis. It is commonly used in combination with propidium iodide (PI) in flow cytometry or microscopy assays