

## Biotin Human Annexin V Protein

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|---------------------------|----------------|
| <b>Catalog Number:</b>    | 604203, 604204 |
| <b>Size:</b>              | 25 ug, 100 ug  |
| <b>Target Name:</b>       | Annexin A5     |
| <b>Regulatory Status:</b> | RUO            |

### PRODUCT DETAILS

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|-------------------------------|--|
| <b>Application:</b>           | Flow Cytometry   |
| <b>Format:</b>                | Liquid, Biotinylated   |
| <b>Expression Host:</b>       | E.coli   |
| <b>Species:</b>               | Human  |
| <b>Accession Number:</b>      | P08758   |
| <b>Sources:</b>               | 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.  |
| <b>Molecular Weight:</b>      | 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.  |
| <b>Affinity Tag:</b>          | None   |
| <b>Purity:</b>                | >95% based on SDS-PAGE under reducing condition  |
| <b>Formulation:</b>           | 1xPBS buffer, pH7.4, 0.09% NaN <sub>3</sub> with a carrier protein   |
| <b>Endotoxin level:</b>       | Not tested   |
| <b>Protein Concentration:</b> | 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.   |
| <b>Storage and Handling:</b>  | Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability. |

### BACKGROUND INFORMATION

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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