

## Technical Data Sheet

### iF488 Human Annexin V Protein

**Catalog Number:** 604209, 604210

**Size:** 25 ug, 100 ug

**Target Name:** Annexin A5

**Regulatory Status:** RUO

#### Product Details

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**Application:** Flow Cytometry

**Format:** Liquid, iFlour 488

**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 then conjugated to iF488.

**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 prior to conjugation.

**Affinity Tag:** None

**Formulation:** 1xPBS buffer, pH7.4, 0.09% NaN<sub>3</sub> with a carrier protein

**Endotoxin level:** Not tested

**Protein Concentration:** 25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.

**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8°C for up to six months.

#### 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