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InnoCyto Inc.

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iF647 Human Annexin V Protein

Catalog Number:	604211, 604212
Size:	25 tests, 100 tests
Target Name:	Annexin A5
Regulatory Status:	RUO

PRODUCT DETAILS

Application:	Flow Cytometry
Format:	iFlour 647
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 iF647.
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% NaN3 with a carrier protein
Protein Concentration:	Supplied at a 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.
Recommended Usage:	For flow cytometric staining, it is recommended to use 5 uL 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. iF647 has an excitation max at 656 nm and an emission max at 670 nm.
Excitation Laser:	Red Laser (633 nm)

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