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DATASHEET

Annexin V-FITC Apoptosis Staining / Detection Kit

Product overview

Name Cat No Biological description Annexin V-FITC Apoptosis Staining / Detection Kit

Identifies early apoptotic, necrotic and viable cells. One-step staining procedure which detects apoptosis by staining exposed phosphatidylserine (PS) which have translocated to the external cell surface. This allows detection of membrane changes that occur in early apoptotic cells. The kit is able to differentiate between:

- Apoptotic cells: Stained by Annexin V-FITC but not propidium iodide
- Necrotic cells: Stained by both Annexin V-FITC and propidium iodide
- Live cells: Stained by neither Annexin V-FITC and propidium iodide

This kit contains:

- Annexin V-FITC Staining solution
- Propidium Iodide Staining solution
- 10x binding buffer

Biological action Applications Description

Kit

Cell Culture, FACS and flow cytometry, fluorescence imaging, live cell imaging

Identifies early apoptotic, necrotic and viable cells

Biological Data

Application notes

Please follow this link to a full Annexin V-FITC staining protocol.

Solubility & Handling

Storage instructions Storage of solutions

+4°C

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Excitation 491 nm **Emission** 516 nm

References

A novel assay for apoptosis. Flow cytometric detection of phosphatidylserine expression on early apoptotic cells using fluorescein labelled Annexin V.

Vermes I et al (1995) Journal of immunological methods 184

PubMedID 7622868

Past, present, and future of annexin A5: from protein discovery to clinical applications.

Boersma HH et al (2005) Journal of nuclear medicine: official publication, Society of Nuclear Medicine 46

PubMedID 16330568