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DATASHEET

Annexin V-PE Apoptosis Staining / Detection Kit

Product overview

Name	Annexin V-PE Apoptosis Staining / Detection Kit
Cat No	HB8164
Biological description	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-PE but not 7-AAD • **Necrotic cells:** Stained by both Annexin V-PE and 7-AAD • **Live cells:** Stained by neither Annexin V-PE and 7-AAD This kit contains: • Annexin V-PE Staining solution • 7-AAD Staining solution • 10x binding buffer
Biological action	Kit
Applications	Cell Culture, FACS and flow cytometry, ICC
Description	Detects apoptosis by staining phosphatidylserine molecules translocated to the outside of the cell membrane.

Biological Data

Application notes	Please follow this link to a full Annexin V-PE staining protocol

Solubility & Handling

Storage instructions	+4°C
Storage of solutions	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	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	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	565 nm
Emission	574 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