

Annexin V FITC Apoptosis Detection Kit

Catalogue Number : 62700-50

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: Annexin V

Format/Conjugate: FITC

Concentration:

Reactivity:

Laser:

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

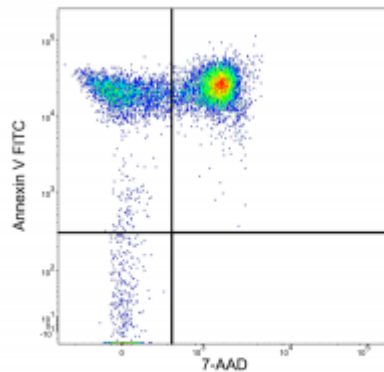
Brightness (1=dim,5=brightest): 3

Isotype:

Formulation: Aqueous buffered solution containing 1mM EDTA, 10mM HEPES, 0.09% NaN₃.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC



Thymocytes treated with dexamethasone and then stained with Annexin V FITC and 7-AAD.

Description

Annexin V is a phospholipid phosphatidylserine (PS) binding protein. In the earlier stages of apoptosis, PS is translocated to the outer sections of the cell plasma membrane and is exposed to the external cellular environment. The mark of the late stages of cellular death is the loss of membrane integrity. Cells can be stained with Annexin V conjugated to a fluorochrome together with 7-AAD, which is excluded from viable cells with intact membranes. This can be used to distinguish cells that are viable (Annexin V and 7-AAD negative), early apoptotic (Annexin V positive and 7-AAD negative), and those that are dead or in late apoptosis (Annexin V and 7-AAD positive). Annexin V binding alone cannot differentiate between necrotic and apoptotic cells.

The Annexin V Apoptosis Detection Kit contains: Annexin V FITC (100 tests), Annexin V Binding Buffer 1X (50mL), and 7-AAD (200 tests).

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

Annexin V Binding Buffer

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Product Information

Clone:

Format/Conjugate:

Concentration:

Reactivity:

Laser:

Peak Emission: nm

Peak Excitation: nm

Filter:

Brightness (1=dim,5=brightest):

Isotype:

Formulation: Aqueous buffered solution containing HEPES, CaCl₂, and NaCl.

Storage: Product should be kept at 2-8°C.

Applications: FC

Description

Annexin V binds is a phospholipid phosphatidylserine (PS) binding protein. In the earlier stages of apoptosis, PS is translocated to the outer sections of the cell plasma membrane and is exposed to the external cellular environment. The mark of the late stages of cellular death is the loss of membrane integrity. Cells can be stained with Annexin V conjugated to a fluorochrome together with 7-AAD, which is excluded from viable cells with intact membranes. This can be used to distinguish cells that are viable (Annexin V and 7-AAD negative), early apoptotic (Annexin V positive and 7-AAD negative), and those that are dead or in late apoptosis (Annexin V and 7-AAD positive). Annexin V binding alone cannot differentiate between necrotic and apoptotic cells. The Annexin V binding buffer is formulated for flow cytometric staining of apoptotic cells with conjugated Annexin V. The buffer is provided ready to use.

Preparation & Storage

The product should be stored at 4°C.

Application Notes

References

Protocol for Annexin V Staining

1. Wash cells twice with stain buffer and resuspend cells in the Annexin V Binding Buffer at a concentration of 1×10^6 cells/ml.
2. Transfer 100 uL of cell suspension into test tube for staining.
3. Add 5 uL of Annexin V conjugate to sample.
4. Add 5 uL of 7-AAD solution to sample.
5. Gently vortex the cells and incubate for 15min at RT (25°C) in the dark.
6. Add 400 uL of Annexin V Binding buffer to test tube.
7. Analyze by flow cytometry.