

Annexin Binding Buffer, 10x concentrate (Catalog# TBS5060)

Catalog	Unit Size
TBS5060-50ML	50 mL
TBS5060-100ML	100 mL

Description

Annexin V is a 35-36 kilodalton, calcium-dependent phospholipid-binding protein that preferentially binds phosphatidyl serine (PS). In normal viable cells, PS is located on the inner leaflet of the plasma membrane. However, in apoptotic cells, PS is translocated to the extracellular membrane leaflet from the inner, marking cells as targets for phagocytosis. On the outer surface of the membrane, PS can be detected by fluorophore-labeled annexin V in a calcium-dependent manner.

10X Annexin Binding Buffer is a concentrated stock solution used to prepare 1X Annexin Binding Buffer, which is optimized for staining cells with Annexin V conjugates.

Features

Flexible: Can be used for multiple annexin V conjugates.

Simple: Easy dilution and use.

Application

- Annexin V fluorescence Assay for apoptosis detection.
- Cell flow staining.

Component

Hepes (pH 7.4)

NaCl

CaCl₂

Unit Size

50 mL or 100 mL/ bottle

Storage

Store at 4°C for 1 year.

Recommended Procedures for Staining Cells

1. Prior to staining cells, dilute 10x concentrated Annexin V Binding Buffer stock to 1x working buffer with water.
2. Wash cells twice with cold PBS (Cat. TBS5003).
3. Resuspend cells in 1x Annexin V Binding Buffer at a concentration of 1×10^6 cells/mL.
4. Transfer 100 μ L of cell suspension in 5 mL test tube.
5. Add 5 μ L of fluorochrome conjugated Annexin V.
6. Stain with a viability dye, such as PI (Cat. TBS2024), if desired.
7. Gently vortex the cells and incubate for 5-15 min at RT (25°C) in the dark.
8. Add 400 μ L of 1x Annexin V Binding Buffer to each tube.
9. Analyze by flow cytometry.

Relative Products

FITC-PI Annexin V Apoptosis Detection (TBS2108)

Propidium Iodide Solution (TBS2024)

Propidium Iodide Powder (TBI5165)

1x PBS (TBS5003)

Resazurin Cell Viability Kit (TBS2001)

LDH Cytotoxicity Assay (TBS2002)

MTT Cell Viability Assay (TBS 2003)

ATP Colorimetric/Fluorometric Assay Kit (TBS2010)

ADP Colorimetric/Fluorometric Assay Kit (TBS2020)

XTT Cell Viability Assay (TBS2021)

CCK-8 Cell Viability Assay (TBS2022)

Caspase-3 Colorimetric Assay kit (TBS2030)

AOPI Viability Assay for Flow Cytometry (TBS2069)

BrdU Cell Proliferation Colorimetric Assay (TBS2086)

Cytochrome c Reductase Activity Assay (TBS2116)

----Research use only