CHAMOT

Annexin V-iFluor 488/PI Apoptosis Detection Reagent

CM001-50D

CM001-100D

CHAMOT
乔 默® 生 物
Specialize In Cytokines

CONTENT

CHAMOT
乔默生物
Specialize In Cytokines

Product Datasheet

Annexin V-iFluor 488/PI Apoptosis Detection Reagent

Catalog#	CM001-50D	CM001-100D
Size	50 rxn	100 rxn

Product Specifications

Background

Apoptosis is a gradually orchestrated process of biochemical reactions of a cell from an organism. It can be triggered by many stimuli, including infection, hypoxia, ischemia, nutrient removal, toxins, heat, radiation, drugs, chemicals, and disease. Consequently, these stresses alter the morphology of a cell, including cell shrinkage, nuclear and cytoplasmic condensation, chromatin fragmentation, membrane blebbing, and apoptotic body formation. CHAMOT fluorescent dye (iFluor 488) conjugated Annexin V is highly purified product. During early apoptosis, cells will translocate membrane phosphatidylserine (PS) from the inner face of the membrane to the cell surface. Propidium iodide (PI) is a common fluorescent dye to detect DNA. It can be used in flow cytometry to evaluate the cell cycle and cell viability during apoptosis. The product can be used in one-step staining procedure without wash step within 20 minutes.

Product Note

Components	CM001-50D	CM001-100D
Annexin V-iFluor 488	1 × 0.25 mL	1 × 0.5 mL
PI Solution	1 × 0.25 mL	1 × 0.5 mL
10×Binding Buffer	2 × 2 mL	3 × 2 mL

Procedure

(1) Collect 1-5x10^5 cells in the flow tube by centrifugation.

(2) Wash cells in 2 mL cold phosphate-buffered saline (PBS) and collect by centrifugation.

(3) Re-suspend cell in 500 µL of 1X Binding Buffer.

(4) Add 5 µL of Annexin V-iFluor 488 and 5 µL of PI, and gently mix the cells and incubate for 15-20 minutes at RT in the dark.

(5) After incubation, the samples should be kept on ice and perform flow cytometry using filters appropriated for fluorescein (FITC, corresponding to Annexin V-iFluor 488)

Storage/Shipping

Stability & Storage	2-8°C for 12 months under sterile conditions from date of receipt.
Shipping	Blue Ice

文献引用

- Effect of Metformin Nanoparticle-Mediated Thioredoxin Interacting Protein Expression on Oxaliplatin-Induced Peripheral Neuralgia. J Nanosci Nanotechnol. 2020 Oct 1;20(10):6123-6132.
- Platelets are highly efficient and efficacious carriers for tumor-targeted nano-drug delivery. Drug Delivery. 2022, VOL. 29, NO. 1, 937–949.
- A nanoreactor boosts chemodynamic therapy and ferroptosis for synergistic cancer therapy using molecular amplifer dihydroartemisinin. J Nanobiotechnology. 2022 May 14;20(1):230.
- Dihydroartemisinin remodels macrophage into an M1 phenotype via ferroptosis-mediated DNA damage.Front Pharmacol. 2022 Aug 11;13:949835.
- Targeted photodynamic therapy of glioblastoma mediated by platelets with photo-controlled release property.Biomaterials. 2022 Sep 30;290:121833.
- Antagonizing apolipoprotein J chaperone promotes proteasomal degradation of mTOR and relieves hepatic lipid deposition.Hepatology. 2023 Jan 3.
- Chlorin e6-induced photodynamic effect facilitates immunogenic cell death of lung cancer as a result of oxidative endoplasmic reticulum stress and DNA damage.
- Dihydroartemisinin elicits immunogenic death through ferroptosis-triggered ER stress and DNA damage for lung cancer immunotherapy. Phytomedicine. 2023 Apr;112:154682.
- Laser-triggered intelligent drug delivery and anti-cancer photodynamic therapy using platelets as the vehicle. Platelets. 2023 Dec;34(1):2166677.
- Up-regulation of ABCG2 by MYBL2 deletion drives Chlorin e6-mediated photodynamic therapy resistance in colorectal cancer.Photodiagnosis Photodyn Ther. 2023 Apr 6;103558.
- Sonodynamic therapy of glioblastoma mediated by platelets with ultrasound-triggered drug release. Drug Deliv. 2023 Dec;30(1):2219429.

- MiR-934 Exacerbates Malignancy of Gastric Cancer Cells by Targeting ZFP36.Iran J Public Health. 2023;52(8):1720-1729.
- A Dihydroartemisinin-Loaded Nanoreactor Motivates Anti-Cancer Immunotherapy by Synergy-Induced Ferroptosis to Activate Cgas/STING for Reprogramming of Macrophage .Adv Healthc Mater. 2023 Aug 11;e2301561.

Chamot Biotechnology(Shanghai) Co., Ltd. www.chamot-bio.com

Tel: 021-51880030 Mail: info@chamot-bio.com QQ: 864920491