

## Product Data Sheet

### K2104 Cytochrome c Apoptosis Assay Kit

#### Kit Contents

| Components                                      | K2104<br>200 µg | Part Number |
|---|-----------------|-------------|
| Detergent (0.1% (v/v) Triton® X-100 in PBS)     | 1 x 30 mL       | K2104-C-1   |
| Goat anti-mouse IgG2a - FITC secondary antibody | 1 x 50 µg       | K2104-C-2   |
| Goat anti-mouse IgG2b - TXRD secondary antibody | 1 x 50 µg       | K2104-C-3   |
| 10X Buffer (10X PBS, pH 7.4)                    | 1 x 100 mL      | K2104-C-4   |
| Anti-Cytochrome c monoclonal antibody           | 1 x 50 µg       | K2104-C-5   |
| Anti-Complex Va monoclonal antibody             | 1 x 50 µg       | K2104-C-6   |
| 100% normal goat serum                          | 1 x 20 mL       | K2104-C-7   |

#### Introduction

Apoptotic cells which have released mitochondrial cytochrome c into the cytosol can be differentiated from nonapoptotic cells which still retain cytochrome c in their mitochondria by fluorescence microscopy.

#### Storage

Shipped at conditions Dry Ice  
 Storage information Please refer to protocols

#### Notes

Apoptotic cells which have released mitochondrial cytochrome c into the cytosol can be differentiated from non-apoptotic cells which still retain cytochrome c in their mitochondria by fluorescence microscopy.

It contains a cytochrome c monoclonal antibody (50 µg) and an isotype-specific secondary antibody (50 µg) which has a fluorescein fluorophore conjugated to it. The kit also contains an ATP synthase V subunit alpha monoclonal antibody (50 µg) and the appropriate isotype-specific secondary antibody (50 µg) which has a Texas Red fluorophore conjugated to it.

ATP synthase is an inner mitochondrial membrane protein and serves as a mitochondrial marker since it is not released into the cytoplasm during apoptosis, unlike cytochrome c. Thus one is able to observe cytochrome c and a mitochondrial marker (ATP synthase subunit alpha) simultaneously by fluorescence microscopy using the kit.

Buffers and blocking solution for immunocytochemical analysis are also included in the kit.

APEX BIO has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.

It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

**APEX BIO Technology**

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