

# Human α-Smooth Muscle Actin PE-conjugated Antibody

Monoclonal Mouse IgG<sub>2A</sub> Clone # 1A4

|         | - 2/    |          |
|---------|---------|----------|
| Catalog | Number: | IC1420P  |
|         | 10      | 00 TESTS |

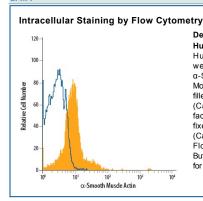
| DESCRIPTION        |   |
|--------------------|---|
| Species Reactivity | Human   |
| Specificity        | Detects human α-Smooth Muscle Actin.  |
| Source             | Monoclonal Mouse IgG <sub>2A</sub> Clone # 1A4  |
| Purification       | Protein A or G purified from hybridoma culture supernatant  |
| Immunogen          | α-Smooth Muscle Actin N-terminal Synthetic Decapeptide  |
| Conjugate          | Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm   |
| Formulation        | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.   |
|                    | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

|  | Recommended<br>Concentration | Sample    |
|--|------------------------------|-----------|
| Intracellular Staining by Flow Cytometry | 10 μL/10 <sup>6</sup> cells  | See Below |

#### DATA



Detection of  $\alpha$ -Smooth Muscle Actin in **Human Monocytes by Flow Cytometry.** Human peripheral blood monocytes were stained with Mouse Anti-Human  $\alpha\text{-Smooth Muscle}$  Actin PE-conjugated Monoclonal Antibody (Catalog # IC1420P, filled histogram) or isotype control antibody (Catalog # IC003P, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

## PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze.

12 months from date of receipt, 2 to 8 °C as supplied.

# BACKGROUND

α-Smooth Muscle Actin has been frequently used as a marker of smooth muscle differentiation (1, 2).

## References:

- 1. Skalli, O. et al. (1986) J. Cell Biol. 103:2787.
- Oishi, K. et al. (2002) J. Physiol. 540:139.

