Human α-Smooth Muscle Actin Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 1A4

Catalog Number: IC1420G

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human α-Smooth Muscle Actin.
Source	Monoclonal Mouse IgG_{2A} Clone # 1A4
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	α-Smooth Muscle Actin N-terminal Synthetic Decapeptide
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

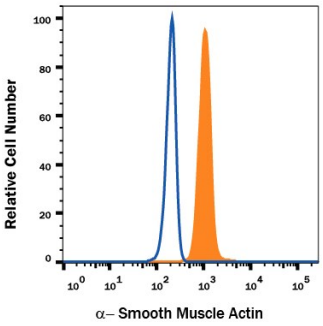
APPLICATIONS

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 Concentration	Sample
Intracellular Staining by Flow Cytometry	5 µL/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of α-Smooth Muscle Actin in Human Blood Monocytes by Flow Cytometry. Human peripheral blood monocytes were stained with Mouse Anti-Human α-Smooth Muscle Actin Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # IC1420G, filled histogram) or isotype control antibody (Catalog # IC003G, 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.
2. Oishi, K. *et al.* (2002) J. Physiol. **540**:139.

PRODUCT SPECIFIC NOTICES

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