

Human SF20/MYDGF Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 1009420

Catalog Number: IC1147R

100 µg

DESCRIPTION

| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human SF20 in direct ELISAs. |
| Source | Monoclonal Mouse IgG ₁ Clone # 1009420 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Chinese hamster ovary cell line CHO-derived recombinant human SF20 Met1-Leu173 Accession # Q969H8 |
| Conjugate | Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *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 | 0.25-1 µg/10 ⁶ cells | U937 Human Histiocytic Lymphoma Cell Line fixed with paraformaldehyde and permeabilized with saponin |

PREPARATION AND STORAGE

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|--------------------------------|--|
| 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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

Human SF20 (Stromal cell-derived growth factor SF20, C19orf10, MYDGF1, Myeloid-derived growth factor1 also formerly known as IL25) is a 15 kDa (predicted) bone marrow-derived monocyte and paracrine-acting protein that promotes cardiac myocyte survival and adaptive angiogenesis for cardiac protection and/or repair after myocardial infarction. SF20 stimulates endothelial cell proliferation through a MAPK1/3-, STAT3- and CCND1 mediated signaling pathway. It is thought to inhibit cardiac myocyte apoptosis in a PI3K/AKT-dependent signaling pathway and is involved in endothelial cell proliferation and angiogenesis. Human SF20 shares 87% aa identity with mouse SF20.

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