

# Human SF20/MYDGF Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 1009420

Catalog Number: IC1147S

100 µg

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human SF20 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 1009420
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human SF20 Met1-Leu173 Accession # Q969H8
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	U937 Human Histiocytic Lymphoma Cell Line fixed with paraformaldehyde and permeabilized with saponin

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## 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.

## PRODUCT SPECIFIC NOTICES

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