

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SF20/MYDGF in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse SF20/MYDGF is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human SF20/MYDGF Val32-Leu173 Accession # Q969H8
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

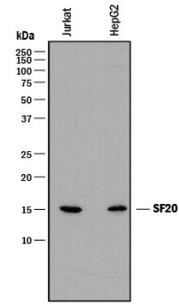
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Simple Western	25 µg/mL	DU145 human prostate carcinoma cell line

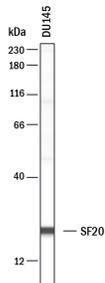
DATA

Western Blot



Detection of Human SF20/MYDGF by Western Blot.
Western blot shows lysates of Jurkat human acute T cell leukemia cell line and HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human SF20/MYDGF Antigen Affinity-purified Antibody (Catalog # AF1147) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for SF20/MYDGF at approximately 15 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human SF20/MYDGF by Simple Western™. Simple Western lane view shows lysates of DU145 human prostate carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for SF20/MYDGF at approximately 22 kDa (as indicated) using 25 µg/mL of Goat Anti-Human SF20/MYDGF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1147). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.