FGL1 (A-8): sc-514057

**BACKGROUND**

FGL1, also known as hepatocyte-derived Fibrinogen-related protein-1 (HFREP-1), LFIRE1 or Hepassocin, is a member of the Fibrinogen family of proteins containing a C-terminal Fibrinogen-like domain. It is a secreted protein that exists as a homodimer and is exclusively expressed in the adult and fetal liver. FGL1 strongly associates with Fibron during clot formation and may also associate with Fibrogen. It is upregulated during liver regeneration and functions as a regulator in liver cell growth. FGL1 has mitogenic activity and may play a role in liver development and function. It has high sequence homology with Fibrinogen β and Fibrinogen γ, however it lacks a platelet-binding site, a Thrombin-sensitive site and a cross-linking region. FGL1 is downregulated in hepatocellular carcinomas (HCC) and its level of expression in HCC highly correlates with the degree of tumor differentiation. This suggests that FGL1 may have growth suppressor activity.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FGL1 (human) mapping to 8p22; Fgl1 (mouse) mapping to 8 A4.

**SOURCE**

FGL1 (A-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 130-158 within an internal region of FGL1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FGL1 (A-8) is available conjugated to agarose (sc-514057 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514057 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514057 PE), fluorescein (sc-514057 FITC), Alexa Fluor® 488 (sc-514057 AF488), Alexa Fluor® 546 (sc-514057 AF546), Alexa Fluor® 594 (sc-514057 AF594) or Alexa Fluor® 647 (sc-514057 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514057 AF680) or Alexa Fluor® 790 (sc-514057 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-514057 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**STORAGE**

Store at 4°C, ***DO NOT FREEZE***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

FGL1 (A-8) is recommended for detection of FGL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FGL1 siRNA (h): sc-62453, FGL1 siRNA (m): sc-62454, FGL1 shRNA Plasmid (h): sc-62453-SH, FGL1 shRNA Plasmid (m): sc-62454-SH, FGL1 shRNA (h) Lentiviral Particles: sc-62453-V and FGL1 shRNA (m) Lentiviral Particles: sc-62454-V.

Molecular Weight of FGL1: 34 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, human liver extract: sc-363766 or rat liver extract: sc-2395.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).


**DATA**

FGL1 (A-8): sc-514057. Western blot analysis of FGL1 expression in Hep G2 whole cell lysate (A) and human liver (B) and rat liver (C) tissue extracts.


**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.