SANTA CRUZ BIOTECHNOLOGY, INC.

Fgl2 (S-20): sc-30869

BACKGROUND

Fibrinogen-like protein 2 (Fgl2), also known as fibroleukin, is secreted by T cells and is involved in diseases in which thrombosis plays a pivotal role, such as virus-induced fulminant hepatitis, fetal loss syndrome and xenograft rejection. Constitutively expressed in cytotoxic T cells, Fgl2 exerts immunosuppressive effects on both T cell proliferation and dendritic cell maturation. Fgl2 is a serine protease and directly cleaves prothrombin to thrombin. Fgl2 functions in the pathogenesis of diseases including viral-induced hepatitis and Th1 cytokine-induced fetal loss syndrome.

REFERENCES

1. Ning, Q., et al. 1999. The nucleocapsid protein of murine hepatitis virus type 3 induces transcription of the novel Fgl2 prothrombinase gene. J. Biol. Chem. 274: 9930-9936.
2. Yuwaraj, S., et al. 2001. Genomic characterization, localization and functional expression of Fgl2, the human gene encoding fibroleukin: a novel human procoagulant. Genomics 71: 330-338.
3. Chan, C.W., et al. 2003. Soluble fibrinogen-like protein 2/fibroleukin exhibits immunosuppressive properties: suppressing T cell proliferation and inhibiting maturation of bone marrow-derived dendritic cells. J. Immunol. 170: 4036-4044.
4. Ning, Q., et al. 2003. Induction of prothrombinase Fgl2 by the nucleocapsid protein of virulent mouse hepatitis virus is dependent on host hepatic nuclear factor-4 α. J. Biol. Chem. 278: 15541-15549.
5. Olson, G.E., et al. 2004. Region-specific expression and secretion of the fibrinogen-related protein, Fgl2, by epithelial cells of the hamster epididymis and its role in disposal of defective spermatozoa. J. Biol. Chem. 279: 51266-51274.
6. Ghanekar, A., et al. 2004. Endothelial induction of Fgl2 contributes to thrombosis during acute vascular xenograft rejection. J. Immunol. 172: 5693-5701.

CHROMOSOMAL LOCATION

Genetic locus: FGL2 (human) mapping to 7q11.23.

SOURCE

Fgl2 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Fgl2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-30869 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Fgl2 (S-20) is recommended for detection of Fibrinogen-like protein 2 of human origin by Western Blotting (starting dilution 1:200, 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).

Fgl2 (S-20) is also recommended for detection of Fibrinogen-like protein 2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Fgl2 siRNA (h): sc-44691, Fgl2 shRNA Plasmid (h): sc-44691-SH and Fgl2 shRNA (h) Lentiviral Particles: sc-44691-V.

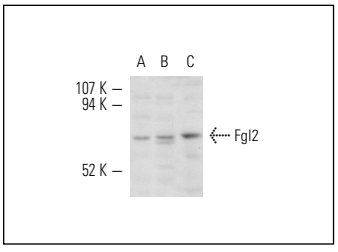
Molecular Weight of Fgl2: 70 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HuT 78 whole cell lysate: sc-2208 or Fgl2 (h): 293T lysate: sc-115132.

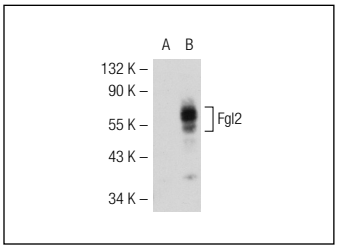
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Fgl2 (S-20): sc-30869. Western blot analysis of Fgl2 expression in Jurkat (**A**), HuT 78 (**B**) and MOLT-4 (**C**) whole cell lysates.



Fgl2 (S-20): sc-30869. Western blot analysis of Fgl2 expression in non-transfected: sc-117752 (**A**) and human Fgl2 transfected: sc-115132 (**B**) 293T whole cell lysates.

RESEARCH USE

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