

Fgl2 (K-17): sc-30870

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

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- 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.
- 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.
- 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.
- 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.
- 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; Fgl2 (mouse) mapping to 5 A3.

SOURCE

Fgl2 (K-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Fgl2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-30870 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Fgl2 (K-17) is recommended for detection of Fibrinogen-like protein 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

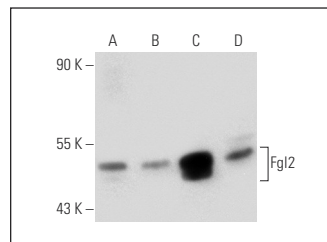
Fgl2 (K-17) is also recommended for detection of Fibrinogen-like protein 2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Fgl2 siRNA (h): sc-44691, Fgl2 siRNA (m): sc-44692, Fgl2 shRNA Plasmid (h): sc-44691-SH, Fgl2 shRNA Plasmid (m): sc-44692-SH, Fgl2 shRNA (h) Lentiviral Particles: sc-44691-V and Fgl2 shRNA (m) Lentiviral Particles: sc-44692-V.

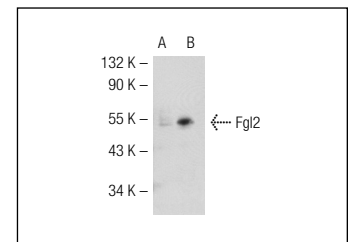
Molecular Weight of Fgl2: 70 kDa.

Positive Controls: MOLT-4 cell lysate: sc-2233, HuT 78 whole cell lysate: sc-2208 or Fgl2 (h): 293T lysate: sc-115132.

DATA



Fgl2 (K-17): sc-30870. Western blot analysis of Fgl2 expression in HuT 78 (A), MOLT-4 (B), U-87 MG (C) and ALL-SIL (D) whole cell lysates.



Fgl2 (K-17): sc-30870. Western blot analysis of Fgl2 expression in non-transfected: sc-117752 (A) and human Fgl2 transfected: sc-115132 (B) 293T whole cell lysates.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **Fgl2 (4H5): sc-100276**, our highly recommended monoclonal alternative to Fgl2 (K-17).