**BACKGROUND**

Multiple coagulation factor deficiency protein 2 (MCFD2) is localized in the endoplasmic reticulum-Golgi intermediate compartment (ERGIC) through a direct, calcium-dependent interaction with LMAN1. The MCFD2-LMAN1 complex forms a specific cargo receptor for the transport of selected proteins from the endoplasmic reticulum to the Golgi apparatus. Mutations in the MCFD2 gene may cause of factor V and factor VIII combined deficiency (F5F8D). F5F8D is an autosomal recessive human bleeding disorder characterized by the reduction of both clotting proteins.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: MCFD2 (human) mapping to 2p21; Mcfd2 (mouse) mapping to 17E4.

**SOURCE**

MCFD2 (F-3) is a mouse monoclonal antibody raised against amino acids 1-146 representing full length MCFD2 of human origin.

**PRODUCT**

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

MCFD2 (F-3) is available conjugated to agarose (sc-390463 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390463 HRP), 200 µg/ml, for WB, HCP and ELISA; to either phycoerythrin (sc-390463 PE), fluorescein (sc-390463 FITC), Alexa Fluor® 488 (sc-390463 AF488), Alexa Fluor® 546 (sc-390463 AF546), Alexa Fluor® 594 (sc-390463 AF594) or Alexa Fluor® 647 (sc-390463 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390463 AF680) or Alexa Fluor® 790 (sc-390463 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

MCFD2 (F-3) is recommended for detection of MCFD2 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), immunohistochemistry (including paraffin-embedded sections) (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 MCFD2 siRNA (m): sc-44445, MCFD2 siRNA (m): sc-44446, MCFD2 shRNA Plasmid (h): sc-44445-SH, MCFD2 shRNA Plasmid (m): sc-44446-SH, MCFD2 shRNA (h) Lentiviral Particles: sc-44445-V and MCFD2 shRNA (m) Lentiviral Particles: sc-44446-V.

Molecular Weight of MCFD2: 17 kDa.

Positive Controls: MCFD2 (m): 293T Lysate: sc-121557.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® starring Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

**STORAGE**

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