**BACKGROUND**

Lectin mannose-binding 1, also designated vesicular integral-membrane protein (VIP36) and lectin mannose-binding 2, also designated ER-Golgi intermediate compartment (ERGIC-53) comprise a family of membrane bound, ubiquitous proteins involved in the selective transport of newly synthesized glycoproteins from the endoplasmic reticulum (ER) to the ER-Golgi intermediate compartment (ERGIC). VIP36 acts as an intracellular lectin in the early secretory pathway. It is involved in the sorting and transport of glycoproteins carrying high mannose-type glycans. ERGIC-53, a mannose-specific lectin, recognizes sugar residues of glycoproteins and glycolipids. It mediates the sorting and recycling of proteins and/or lipids. Null expression of ERGIC-53, also designated LMAN1, results in a rare autosomal recessive bleeding disorder that causes combined deficiency of both coagulation factors V and VIII.

**CHROMOSOMAL LOCATION**

Genetic locus: LMAN1 (human) mapping to 18q21.32; Lman1 (mouse) mapping to 18 E1.

**SOURCE**

ERGIC-53 (C-6) is a mouse monoclonal antibody raised against amino acids 286-310 mapping at the C-terminus of ERGIC-53 of human origin.

**PRODUCT**

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

ERGIC-53 (C-6) is available conjugated to agarose (sc-365158 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365158 HRP), 200 μg/ml, for WB, HRP- and ELISA; to either phycoerythrin (sc-365158 PE), fluorescein (sc-365158 FITC), Alexa Fluor® 488 (sc-365158 AF488), Alexa Fluor® 546 (sc-365158 AF546), Alexa Fluor® 594 (sc-365158 AF594) or Alexa Fluor® 647 (sc-365158 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-365158 AF680) or Alexa Fluor® 790 (sc-365158 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

ERGIC-53 (C-6) is recommended for detection of ERGIC-53 of mouse, rat and 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), 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].


Molecular Weight of ERGIC-53: 53 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, JAR cell lysate: sc-2276 or HeLa whole cell lysate: sc-2200.

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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