**BACKGROUND**

Puromycin aminonucleoside nephrosis (PAN) is a rat model for human minimal change nephropathy. During PAN, severe proteinuria is induced that is paralleled by a reduced expression of a rat podocyte protein, named podoplanin. Podoplanin, also known as glycoprotein 38 (gp38) is a type I membrane protein. Podoplanin localizes in stromal cells of peripheral lymphoid tissue and thymic epithelial cells. As a regulator of the lymphatic endothelium, podoplanin probably plays a role in maintaining the unique shape of podocytes.

**CHROMOSOMAL LOCATION**

Genetic locus: PDPN (human) mapping to 1p36.21.

**SOURCE**

Podoplanin (E-1) is a mouse monoclonal antibody raised against amino acids 1-162 representing full length podoplanin 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.

Podoplanin (E-1) is available conjugated to agarose (sc-376695 AC), 500 µg/0.25 ml agarose in 1 ml, for WB, (HCP) and ELISA; to either phycocerythrin (sc-376695 PE), fluorescein (sc-376695 FITC), Alexa Fluor® 488 (sc-376695 AF488), Alexa Fluor® 546 (sc-376695 AF546), Alexa Fluor® 594 (sc-376695 AF594) or Alexa Fluor® 647 (sc-376695 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either AlexaFluor® 680 (sc-376695 AF680) or Alexa Fluor® 790 (sc-376695 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**STORAGE**

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

**RESEARCH USE**

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

**APPLICATIONS**

Podoplanin (E-1) is recommended for detection of podoplanin of 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 podoplanin siRNA (h): sc-62834, podoplanin shRNA Plasmid (h): sc-62834-SH and podoplanin shRNA (h) Lentiviral Particles: sc-62834-V.

Molecular Weight of podoplanin: 43 kDa.

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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

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