**Fn14 (ITEM-4): sc-56250**

**BACKGROUND**

Fn14, the TWEAK receptor, is a recently identified member of the TNF receptor superfamily and is expressed on smooth muscle cells and endothelial cells. Fn14 is a weak inducer of apoptosis and promotes angiogenesis. Fn14, a type 1 membrane protein, associates with TRAF1 and TRAF2, and may modulate cellular adhesion to matrix proteins. It is highly expressed in heart, placenta, and kidney, and moderately expressed in lung, skeletal muscle and pancreas. Fn14 is the smallest member of the TNF receptor (TNFR) superfamily described to date, and signals via recruitment of several different TNFR-associated factors.

**CHROMOSOMAL LOCATION**

Genetic locus: TNFRSF12A (human) mapping to 16p13.3; Tnfrsf12a (mouse) mapping to 17 A3.3.

**SOURCE**

Fn14 (ITEM-4) is a mouse monoclonal antibody raised against Fn14 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2b Kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Fn14 (ITEM-4) is available conjugated to agarose (sc-56250 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-56250 HRP), 200 µg/ml, for WB, IHC(PO) and ELISA; to either phycoerythrin (sc-56250 PE), fluorescein (sc-56250 FITC), Alexa Fluor® 488 (sc-56250 AF488), Alexa Fluor® 546 (sc-56250 AF546), Alexa Fluor® 594 (sc-56250 AF594) or Alexa Fluor® 647 (sc-56250 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PO) and FCM; and to either Alexa Fluor® 680 (sc-56250 AF680) or Alexa Fluor® 790 (sc-56250 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

Fn14 (ITEM-4) is recommended for detection of Fn14 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) and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Fn14 siRNA (h): sc-43764, Fn14 siRNA (m): sc-145209, Fn14 shRNA Plasmid(h): sc-43764-SH, Fn14 shRNA Plasmid (m): sc-145209-SH, Fn14 shRNA (h) Lentiviral Particles: sc-43764-V and Fn14 shRNA (m) Lentiviral Particles: sc-145209-V.

Molecular Weight of Fn14: 14 kDa.

Positive Controls: Fn14 (h2): 293T Lysate: sc-174426 or HISM cell lysate: sc-2229.

**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.

**DATA**

![Western blot analysis of Fn14 expression](image)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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