

tetranectin (F-8): sc-376940

BACKGROUND

Tetranectin is a homotrimeric glycoprotein present in plasma and various tissue locations that binds to calcium, heparin, and plasminogen kringle 4. Tetranectin may play a prominent role in tissue remodeling as well as in the regulation of proteolytic processes via its binding and indirect activation of plasminogen. Tetranectin is found in the extracellular matrix (ECM) of certain carcinomas, but is not present in the ECM of normal tissues. Extracellular proteolysis is an important factor in the ability of malignant cells to penetrate normal tissues and metastasize. Decreased plasma tetranectin or increased tetranectin in stroma of cancers correlates with cancer progression and a grim prognosis. Tetranectin may also influence cancer growth by altering activities of plasminogen or the plasminogen fragment, angiostatin which inhibits tumor cell proliferation.

CHROMOSOMAL LOCATION

Genetic locus: CLEC3B (human) mapping to 3p21.31; Clec3b (mouse) mapping to 9 F4.

SOURCE

tetranectin (F-8) is a mouse monoclonal antibody raised against amino acids 103-202 mapping at the C-terminus of tetranectin of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

tetranectin (F-8) is available conjugated to agarose (sc-376940 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376940 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376940 PE), fluorescein (sc-376940 FITC), Alexa Fluor[®] 488 (sc-376940 AF488), Alexa Fluor[®] 546 (sc-376940 AF546), Alexa Fluor[®] 594 (sc-376940 AF594) or Alexa Fluor[®] 647 (sc-376940 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-376940 AF680) or Alexa Fluor[®] 790 (sc-376940 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

tetranectin (F-8) is recommended for detection of tetranectin 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 tetranectin siRNA (h): sc-61675, tetranectin siRNA (m): sc-61676, tetranectin shRNA Plasmid (h): sc-61675-SH, tetranectin shRNA Plasmid (m): sc-61676-SH, tetranectin shRNA (h) Lentiviral Particles: sc-61675-V and tetranectin shRNA (m) Lentiviral Particles: sc-61676-V.

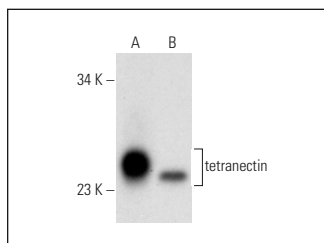
Molecular Weight of tetranectin: 20 kDa.

Positive Controls: human plasma extract: sc-364374 or human liver extract: sc-363766.

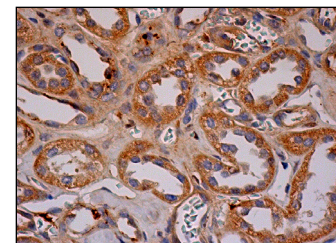
RECOMMENDED SUPPORT REAGENTS

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

DATA



tetranectin (F-8): sc-376940. Western blot analysis of tetranectin expression in human plasma (A) and human liver (B) tissue extract.



tetranectin (F-8): sc-376940. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining of cells in tubules.

SELECT PRODUCT CITATIONS

- Kumar, A., et al. 2021. The polysaccharide chitosan facilitates the isolation of small extracellular vesicles from multiple biofluids. *J. Extracell. Vesicles* 10: e12138.
- Mun, S., et al. 2022. Transcriptome profile of membrane and extracellular matrix components in ligament-fibroblastic progenitors and cementoblasts differentiated from human periodontal ligament cells. *Genes* 13: 659.

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.

PROTOCOLS

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

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