**BACKGROUND**

Dermatopontin, also known as TRAMP or DPT, is a 201 amino acid secreted protein belonging to the Dermatopontin family. Expressed in fibroblasts, heart, skeletal muscle, brain and pancreas, Dermatopontin may participate in cell-matrix interactions and matrix assembly by possibly serving as a communication link between the cell surface of dermal fibroblasts and their extracellular matrix environment. Dermatopontin may also play a critical role in the elasticity of skin and collagen accumulation attributed to collagen fibrillogenesis. Implicated in accelerating collagen fibril formation, Dermatopontin stabilizes collagen fibrils against low-temperature dissociation. Induced by TGFβ1 and inhibited by IL-4, Dermatopontin may be involved in the pathogenesis and growth of prostate cancer. Dermatopontin enhances the activity of TGFβ1 and inhibits cell proliferation.

**CHROMOSOMAL LOCATION**

Genetic locus: DPT (human) mapping to 1q24.2; Dpt (mouse) mapping to 1H2.2.

**SOURCE**

Dermatopontin (F-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 25-57 near the N-terminus of Dermatopontin of human origin.

**PRODUCT**

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

**STORAGE**

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

**APPLICATIONS**

Dermatopontin (F-4) is recommended for detection of Dermatopontin 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). Dermatopontin (F-4) is also recommended for detection of Dermatopontin in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Dermatopontin siRNA (h): sc-88148, Dermatopontin siRNA (m): sc-143012, Dermatopontin shRNA Plasmid (h): sc-88148-SH, Dermatopontin shRNA Plasmid (m): sc-143012-SH, Dermatopontin shRNA (h) Lentiviral Particles: sc-88148-V and Dermatopontin shRNA (m) Lentiviral Particles: sc-143012-V.

Molecular Weight of Dermatopontin: 22 kDa.

Positive Controls: Dermatopontin (h): 293T Lysate: sc-115088.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

**SELECT PRODUCT CITATIONS**


**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.