Dermatopontin (F-4): sc-376863

**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.

**REFERENCE**


**CHROMOSOMAL LOCATION**

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

**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. Dermatopontin (F-4) is available conjugated to agarose (sc-376863 AC), Alexa Fluor® 488 (sc-376863 AF488), Alexa Fluor® 546 (sc-376863 AF546), Alexa Fluor® 594 (sc-376863 AF594), Alexa Fluor® 647 (sc-376863 AF647), 200 µg/ml, for WB, (HCP) and ELISA; to either phycoerythrin (sc-376863 FITC), Alexa Fluor® 488 (sc-376863 AF488), Alexa Fluor® 546 (sc-376863 AF546), Alexa Fluor® 594 (sc-376863 AF594) or Alexa Fluor® 647 (sc-376863 AF647), 200 µg/ml, for WB (RGB), IF, (HCP) and FCM; and to either Alexa Fluor® 680 (sc-376863 AF680) or Alexa Fluor® 790 (sc-376863 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-376863 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**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.

**DATA**

![Dermatopontin (F-4): sc-376863. Western blot analysis of Dermatopontin expression in non-transfected: sc-117752 (A) and human Dermatopontin transfected: sc-115088 (B) 293T whole cell lysates.](image)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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