

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Dermato pontin in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse Dermato pontin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Dermato pontin Gln19-Val201 Accession # AAH33736
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Dermato pontin, also known as TRAMP (tyrosine rich acidic matrix protein), is a widely expressed noncollagenous protein component of the extracellular matrix (1, 2). Mature human Dermato pontin shares 96%, 92%, and 92% amino acid sequence identity with bovine, mouse, and rat Dermato pontin, respectively. It is a 22 kDa molecule that is tyrosine sulfated but not glycosylated (3, 4). Dermato pontin contains three disulfide bonded loop structures that enclose conserved hexapeptide motifs (5). It accelerates collagen fibril formation *in vitro*, and Dermato pontin deficient mice exhibit altered collagen matrix deposition and organization (6 - 8). Dermato pontin is downregulated in fibrotic growths such as leiomyoma and scar tissue (9, 10). It binds both TGF-β and the proteoglycan decorin, interactions that can increase the bioavailability of TGF-β (11, 12). Dermato pontin promotes bone mineralization under the control of the vitamin D receptor and inhibits BMP-2 effects on osteoblast precursors (13, 14).

PRODUCT SPECIFIC NOTICES

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