Human Dermatopontin Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4629G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Dermatopontin in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse Dermatopontin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Dermatopontin Gln19-Val201 Accession # AAH33736
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

Dermatopontin, also known as TRAMP (tyrosine rich acidic matrix protein), is a widely expressed noncollagenous protein component of the extracellular matrix (1, 2). Mature human Dermatopontin shares 96%, 92%, and 92% amino acid sequence identity with bovine, mouse, and rat Dermatopontin, respectively. It is a 22 kDa molecule that is tyrosine sulfated but not glycosylated (3, 4). Dermatopontin contains three disulfide bonded loop structures that enclose conserved hexapeptide motifs (5). It accelerates collagen fibril formation *in vitro*, and Dermatopontin deficient mice exhibit altered collagen matrix deposition and organization (6 - 8). Dermatopontin 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). Dermatopontin 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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