

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse WISP-1/CCN4 in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant human (rh) WISP-1 is observed and less than 1% cross-reactivity with rhCTGF and recombinant mouse NOV is obs
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse WISP-1/CCN4 Thr23-Asn367 Accession # O54775
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.
Immunohistochemistry	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

Mouse WISP-1 (Wnt-induced secreted protein-1; also named CNN4) is a 40 kDa, secreted, heparin-binding glycoprotein that is a member of the CCN (or CTGF/Cyr61/Nov) cysteine-rich protein family (1-6). It is synthesized as a 367 amino acid (aa) precursor that contains a series of structural homology modules. Following a 22 aa signal sequence, there is a 68 aa IGF1-like domain (aa 53-120), a 66 aa von Willebrand factor type C (VWC) module (aa 121-186), a 41 aa TSP type I domain (aa 220-260) and a 75 aa, C-terminal cysteine knot motif (aa 273-347) (1, 6). The VWC module is associated with protein-protein interaction, the TSP domain binds sulfated glycoconjugates, and the cysteine knot mediates dimerization and receptor binding (4). It is likely that WISP-1 normally circulates as an 80 kDa homodimer (2). Multiple splice forms are reported for human WISP-1, but none for rodent (7-9). Mature mouse WISP-1 is 98%, 84% and 85% aa identical to rat, canine and human WISP-1, respectively. WISP-1 is expressed by fibroblasts and osteoblasts, and may contribute to fracture healing by promoting bone cell formation (1, 10, 11).

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