

Human Decorin Antibody

Monoclonal Mouse IgG₁ Clone # 115402 Catalog Number: MAB143

Human	
Detects human Decorin in direct ELISAs and Decorin.	Western blots. In direct ELISAs, this antibody does not cross-react with recombinant mouse
Monoclonal Mouse IgG ₁ Clone # 115402	
Protein A or G purified from hybridoma cultur	re supernatant
S. frugiperda insect ovarian cell line Sf 21-de Gly17-Lys172 Accession # NP_598013.1	rived recombinant human Decorin
Lyophilized from a 0.2 µm filtered solution in *Small pack size (-SP) is supplied as a 0.2 µr	PBS with Trehalose. See Certificate of Analysis for details. m filtered solution in PBS.
ons should be determined by each laboratory for each applic	cation. General Protocols are available in the Technical Information section on our website.
Recommended Concentration	Sample
1 μg/mL	Recombinant Human Decorin (Catalog # 143-DE)
try 8-25 μg/mL	Immersion fixed paraffin-embedded sections of human breast
STORAGE	
	Detects human Decorin in direct ELISAs and Decorin. Monoclonal Mouse IgG ₁ Clone # 115402 Protein A or G purified from hybridoma cultu S. frugiperda insect ovarian cell line Sf 21-de Gly17-Lys172 Accession # NP_598013.1 Lyophilized from a 0.2 µm filtered solution in *Small pack size (-SP) is supplied as a 0.2 µ ons should be determined by each laboratory for each applied Recommended Concentration 1 µg/mL try 8-25 µg/mL

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Reconstitution

Shipping

DESCRIPTION

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.
 1 month, 2 to 8 °C under sterile conditions after reconstitution

Reconstitute at 0.5 mg/mL in sterile PBS.

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Decorin is a small secreted chondroitin/dermatan sulfate proteoglycan in the family of small leucine-rich proteoglycans (SLRPs). SLRP family members are characterized by N-terminal and C-terminal cysteine-rich regions which flank the central region containing 10-12 tandem leucine-rich repeats (LRR) (1, 2). The human Decorin cDNA encodes a 359 amino acid (aa) precursor that includes a 16 aa signal sequence and a 14 aa propeptide. The 329 aa mature protein contains twelve LRR. Alternate splicing generates five isoforms with variable length deletions (3). Mature human and mouse Decorin share 80% aa sequence identity. In Decorin, serine 34 in the N-terminal domain is O-glycosylated. Naturally occurring Decorin proteoglycan has a molecular mass of approximately 100 kDa, and the deglycosylated Decorin core protein has a mass of approximately 40 kDa. Decorin binds to fibronectin, TGF-β, and type I and type II collagens. The binding of Decorin to various molecules was reported to be mediated *via* the core protein. Decorin has been implicated in matrix assembly and has also been reported to suppress the growth of various tumor cell lines by activating the epidermal growth factor receptor.

References:

- 1. Naito, Z. (2005) J. Nippon Med. Sch. 72:137.
- 2. Matsushima, N. et al. (2005) Cell. Mol. Life Sci. 62:2771.
- 3. Danielson, K. et al. (1993) Genomics 15:146.

