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Human Decorin Antibody

Monoclonal Mouse IgG₁ Clone # 1072709 Catalog Number: MAB11475

RDSYSTEMS

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Decorin in ELISAs.	
Source	Monoclonal Mouse IgG ₁ Clone # 1072709	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	S. <i>frugiperda</i> insect ovarian cell line <i>Sf</i> 21-derived recombinant human Decorin Gly17-Lys359 Accession # P07585	
Formulation	Lvophilized from a 0.2 um filtered solution in PBS with Trehalose.	

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.

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10 ⁶ cells	HEK293 cell line transfected with human Decorin

DATA



Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS. Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. Stability & Storage 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.
 - 6 months, -20 to -70 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after red

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 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.

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