Datasheet for ABIN7535247

Decorin Protein (DCN) (His tag)

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Overview

Quantity:	100 µg
Target:	Decorin (DCN)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Decorin protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Decorin/PG-S2/DCN Protein
Sequence:	GPFQQRGLFD FMLEDEASGI GPEVPDDRDF EPSLGPVCPF RCQCHLRVVQ CSDLGLDKVP KDLPPDTTLL DLQNNKITEI KDGDFKNLKN LHALILVNNK ISKVSPGAFT PLVKLERLYL SKNQLKELPE KMPKTLQELR AHENEITKVR KVTFNGLNQM IVIELGTNPL KSSGIENGAF QGMKKLSYIR IADTNITSIP QGLPPSLTEL HLDGNKISRV DAASLKGLNN LAKLGLSFNS ISAVDNGSLA NTPHLRELHL DNNKLTRVPG GLAEHKYIQV VYLHNNNISV VGSSDFCPPG HNTKKASYSG VSLFSNPVQY WEIQPSTFRC VYVRSAIQLG NYK
Specificity:	Gly17-Lys359
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human DCN at 1 µg/mL (100 µL/well) can bind DCN Rabbit pAb with a linear range of 0.5-141 ng/mL.

Target Details

Target:	Decorin (DCN)
Alternative Name:	Decorin/PG-S2/DCN (DCN Products)
Background:	Description: Decorin is a ubiquitous small cellular or pericellular matrix proteoglycan and is closely related in structure to biglycan protein. It belongs to the small leucine-rich proteoglycan (SLRP) family and consists of a core protein and a covalently linked glycosaminoglycan chain which is either chondroitin sulfate (CS) or dermatan sulfate (DS). As a component of connective tissue, decorin interacts with several extracellular matrix components, such as type I collagen and fibronectin, and plays a role in matrix assembly. Decorin resides in the tumor microenvironment and affects the biology of various types of cancer by downregulating the activity of several receptors involved in cell growth and survival. Decorin binds to and modulates the signaling of the epidermal growth factor receptor and other members of the ErbB family of receptor tyrosine kinases. It exerts its antitumor activity by a dual mechanism: via inhibition of these key receptors through their physical downregulation coupled with attenuation of their signaling, and by binding to and sequestering TGFbeta. Decorin also modulates the insulin-like growth factor receptor and the low-density lipoprotein receptor-related protein 1, which indirectly affects the TGFbeta receptor pathway. Decorin plays significant roles in tissue development and assembly, as well as playing both direct and indirect signaling roles. Name: DCN,CSCD,DSPG2,PG40,PGII,PGS2,SLRR1B,decorin,Decorin
Gene ID:	1634
UniProt:	P07585-1
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Handling

Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term.|After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

