Anti-human HAPLN1 Antibody

ORDERING INFORMATION

Catalog Number: AF2608

Lot Number: VBN01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human HAPLN1

Immunogen: NS0-derived rhHAPLN1

Ig Type: goat IgG

Applications: Western blot
Direct ELISA

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human Hyaluronan and Proteoglycan Link Protein 1 (rhHAPLN1). Human HAPLN1 specific IgG was purified by human HAPLN1 affinity chromatography. HAPLN1, also known as CRTL1 (Cartilage Link Protein 1), belongs to the HAPLN family. It functions to stabilize aggregates of hyaluronan and chondroitin sulfate proteoglycans in the extracellular or pericellular matrix. At least three molecular weight forms (48 kDa, 44 kDa and 41 kDa) of human HAPLN1 have been identified. Whereas, the 48 kDa and 44 kDa forms differ in their degrees of glycosylation, the 41 kDa form also has a 16 amino acid residue N-terminal truncation. Mature human HAPLN1 shares 96% aa identity with mature mouse, rat and porcine as well as equine HAPLN1.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Endotoxin Level

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human HAPLN1 in direct ELISAs and western blots. In these formats, this antibody shows approximately 5% cross-reactivity with rhHAPLN4.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human HAPLN1. The detection limit for rhHAPLN1 is approximately 2 ng/lane under non-reducing and reducing conditions.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human HAPLN1. The detection limit for rhHAPLN1 is approximately 0.3 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

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5/25/05