

Recombinant Canine Podoplanin (PDPN)

Cat. No.: AP2C284

Product Type: Animal Proteins

Size: 20 µg; 100 µg; 1 mg

Product Overview

BioVenic's Recombinant Canine Podoplanin (PDPN) is a recombinant protein expressed from *E. coli*. Its predicted molecular weight is 17.6 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Canine
Expression System	<i>E. coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	17.6 kDa
Physical State	Lyophilized
Formulation	Tris/PBS-based buffer, 5%-50% glycerol.

Target Information

Canine podoplanin (PDPN) is a type I transmembrane sialoglycoprotein involved in cell migration and proliferation. It is highly expressed in various tissues, including lymphatic endothelial cells and renal podocytes. In canine tumors, PDPN overexpression is associated with malignancy and progression, making it a potential biomarker and therapeutic target. For example, in canine non-tonsillar squamous cell carcinoma (NTSCC), PDPN promotes cell proliferation, survival, and migration. Additionally, PDPN is involved in tumor-associated lymphangiogenesis and immune evasion, further highlighting its role in cancer progression.

Protein	Canine Podoplanin (PDPN)
Protein Synonym	PDPN; GP40; Podoplanin; Mucin-type membrane protein Gp40; Gp40
Gene ID	403886
UniProt ID	Q95152

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -20°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.