

Mouse Serglycin (SRGN) ELISA Kit-Sandwich

Cat. No.: EK6F629

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Serglycin (SRGN) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse SRGN in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Serglycin (SRGN).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	46.9-3000 pg/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Serglycin is involved in the formation of mast cell secretory granules and facilitates the storage of various compounds within secretory vesicles. It is essential for storing specific proteases in connective tissue and mucosal mast cells and for storing granzyme B in T-lymphocytes. Additionally, Serglycin aids in the localization of neutrophil elastase within the azurophilic granules of neutrophils. In the RIP1-Tag2 mouse model, research revealed that the absence of Serglycin resulted in increased tumor volume and improved tumor vascular function, although there was no notable change in proliferation and apoptosis activities. In tumors lacking Serglycin, there was a decrease in the expression levels of vascular endothelial growth factor (VEGF) and hepatocyte growth factor (HGF), suggesting a reduction in the pro-angiogenic capacity of the tumor microenvironment.

Target/Biomarker	Mouse SRGN
Target Synonym	PRG; PPG; PRG1; proteoglycan 1; secretory granule
Gene ID	19073

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

Reference

Hamilton, Andrew *et al.* "Loss of Serglycin Promotes Primary Tumor Growth and Vessel Functionality in the RIP1-Tag2 Mouse Model for Spontaneous Insulinoma Formation." *PloS one* vol. 10,5 e0126688. 15 May. 2015.

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.