

Mouse Granzyme K (GZMK) ELISA Kit-Sandwich

Cat. No.: EK5F356

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Granzyme K (GZMK) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse GZMK 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 Granzyme K (GZMK).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	15.7-1000 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

GrK, similar to Granzyme A (GzA), induces single-stranded DNA breaks in target cells by cleaving the SET complex in chromatin, leading to cell apoptosis. GrK also has non-cytotoxic roles, such as regulating immune responses and promoting the release of inflammatory factors. Research has demonstrated that GrK can trigger the secretion of proinflammatory cytokines IL-6, IL-8, and MCP-1 by activating the protease-activated receptor-1 (PAR-1). In mice, the GrK gene has been cloned, revealing that the protein it encodes is highly homologous to human Granzyme A. Although GrK is expressed at lower levels than GzA in mouse cytotoxic lymphocytes (CTLs), it retains its function. For instance, in Granzyme A-deficient mice, GrK can partially compensate for the loss of GzA's cytotoxicity.

Target/Biomarker	Mouse GZMK
Target Synonym	GZM-K; TRYP2; PRSS; Serine Protease; Granzyme 3; Tryptase II; Fragmentin-3; Granzyme-3; NK-tryptase-2

Gene ID	14945
UniProt ID	O35205

Shipping and Storage

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

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.