

Mouse O-GlcNAcase (OGA) ELISA Kit-Sandwich

Cat. No.: EK5F106

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse O-GlcNAcase (OGA) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse OGA 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 O-GlcNAcase (OGA).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.32-20 ng/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

Protein O-GlcNAcase specifically removes GlcNAc, but not GalNAc, from O-glycosylated proteins. It deglycosylates a wide range of proteins, including CRYAB, ELK1, GSDMD, LMNB1, and TAB1. The enzyme can utilize p-nitrophenyl-beta-GlcNAc and 4-methylumbelliferone-GlcNAc as substrates, but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro). In mice, O-GlcNAcase is encoded by the *Oga* gene. O-GlcNAcase plays an important role in metabolic homeostasis in mice, especially during pregnancy and development. Studies have shown that mice with conditional knockout of O-GlcNAcase develop metabolic disorders and semi-lethal placental premature aging.

Target/Biomarker	Mouse OGA
Target Synonym	MEA5; MGEA5; NCOAT
Gene ID	76055

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.