

Mouse Insulin Receptor Substrate 2 (IRS2) ELISA Kit-Sandwich

Cat. No.: EK6F346

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Insulin Receptor Substrate 2 (IRS2) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse IRS2 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 Insulin Receptor Substrate 2 (IRS2).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.17-10 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

Insulin receptor substrate 2 (IRS-2) is a signaling adapter protein involved in the signal transduction of insulin receptor (INSR) and insulin-like growth factor I receptor (IGF1R) tyrosine kinases. It is crucial for development, growth, glucose homeostasis, and lipid metabolism. IRS-2 plays a pivotal role in pancreatic β cells by regulating their growth, survival, and function through the insulin and IGF-1 signaling pathways. Mice lacking IRS-2 exhibit reduced pancreatic β cell mass, impaired insulin secretion, and decreased glucose tolerance, ultimately leading to the onset of type 2 diabetes.

Target/Biomarker	Mouse IRS2
Target Synonym	Insulin receptor substrate 2; IRS 2; IRS-2; Irs2
Gene ID	384783
UniProt ID	P81122

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.