

Mouse Synaptopodin 2 (SYNPO2) ELISA Kit-Sandwich

Cat. No.: EK6F163

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Synaptopodin 2 (SYNPO2) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse SYNPO2 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 Synaptopodin 2 (SYNPO2).
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

Synaptopodin-2 exhibits actin-binding and actin-bundling activities, inducing the formation of F-actin networks. At the sarcomeric Z lines, it is thought to function as an adapter protein, linking nascent myofibers to the sarcolemma via ZYX, and may play a role in the early assembly and stabilization of Z lines. In mice, synaptopodin-2 has several important functions, including the regulation of synaptic plasticity, maintenance of glomerular podocyte function, involvement in cancer development, and roles in neurons and muscle tissue. It regulates calcium release by forming clusters and participates in synaptic plasticity. Mice lacking synaptopodin-2 display defects in long-term potentiation (LTP), spatial memory impairment, and impaired synaptic plasticity.

Target/Biomarker	Mouse SYNPO2
Target Synonym	Myopodin; Genethonin-2
UniProt ID	Q91YE8

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

Papazoglou, Anna *et al.* "Sex- and region-specific cortical and hippocampal whole genome transcriptome profiles from control and APP/PS1 Alzheimer's disease mice." *PloS one* vol. 19,2 e0296959. 7 Feb. 2024.

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.