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Mouse Segment Polarity Protein Dishevelled Homolog DVL-1 (DVL1) ELISA Kit-Sandwich

Cat. No.: EK6F947

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Segment Polarity Protein Dishevelled Homolog DVL-1 (DVL1) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse DVL1 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 Segment Polarity Protein Dishevelled Homolog DVL-1 (DVL1).
Target Species	Mouse
Species Reactivity	Mouse
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

Segment polarity protein dishevelled homolog DVL-1 is involved in Wnt signaling by interacting with the cytoplasmic C-terminus of frizzled family members, transmitting the Wnt signal to downstream effectors. It functions in both canonical and non-canonical Wnt pathways. In mice, the lack of Dvl1 results in defects in synaptic assembly. For instance, mice with both Wnt7a and Dvl1 mutations exhibit reduced presynaptic protein accumulation, leading to impaired synaptic transmission. These mice particularly show a marked reduction in the frequency of presynaptic currents (mEPSCs) at vagal fiber-granule cell synapses in the cerebellum, while the amplitude remains unaffected.

Target/Biomarker	Mouse DVL1
Target Synonym	Segment Polarity Protein Dishevelled Homolog DVL-1; Dvl1; Dishevelled-1; DSH homolog 1
Gene ID	13542

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.