

Mouse Methyl CpG Binding Protein 2 (MECP2) ELISA Kit-Sandwich

Cat. No.: EK6F326

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Methyl CpG Binding Protein 2 (MECP2) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse MECP2 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 Methyl CpG Binding Protein 2 (MECP2).
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

Methyl-CpG-binding protein 2 is a chromosomal protein that binds specifically to methylated DNA, recognizing individual methyl-CpG pairs without being affected by the surrounding sequences. It mediates transcriptional repression by interacting with histone deacetylase and the corepressor SIN3. MeCP2 binds both 5-methylcytosine (5mC) and 5-hydroxymethylcytosine (5hmC)-containing DNA, showing a preference for 5-methylcytosine (5mC). In mice, MeCP2 plays a role in various neurobiological processes, including regulation of gene expression, synaptic plasticity, neuronal activity balance, and pathology in disease models. Deficiency of MeCP2 in mice leads to phenotypes resembling Rett Syndrome (RTT), characterized by motor dysfunction, cognitive deficits, and abnormalities in neuronal structure and synaptic plasticity.

Target/Biomarker	Mouse MECP2
Target Synonym	RTS; AUTSX3; MRX16; MRX79; PPMX; RTT; Rett Syndrome; Mental Retardation; X-linked 16

Gene ID [17257](#)

UniProt ID [Q9Z2D6](#)

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.