

Mouse Toll Like Receptor 9 (TLR9) ELISA Kit-Sandwich

Cat. No.: EK5F866

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Toll Like Receptor 9 (TLR9) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse TLR9 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 Toll Like Receptor 9 (TLR9).
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

Toll-like receptor 9 (TLR9) plays a crucial role in both innate and adaptive immunity. Toll-like receptors (TLRs) are responsible for mediating the host's immune response to pathogens by identifying specific molecular patterns associated with microorganisms. TLR 9, specifically, is a nucleotide-sensing receptor activated by unmethylated cytidine-phosphate-guanosine (CpG) dinucleotides. In mice, TLR9 activates the innate immune system by recognizing CpG DNA, thereby regulating a range of immune responses and disease processes. Its functions extend beyond defending against infections; it also plays a part in regulating autoimmune diseases, inflammatory conditions, and maintaining intestinal microbial balance. Research indicates that mice lacking TLR9 exhibit a significant reduction in the production of anti-double-stranded DNA (dsDNA) and anti-histone antibodies, though the production of anti-Sm antibodies remains unaffected.

Target/Biomarker	Mouse TLR9
Target Synonym	CD289

Gene ID [81897](#)

UniProt ID [Q9EQU3](#)

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.