

Mouse Monocyte Chemotactic Protein 3 (MCP3) ELISA Kit-Sandwich

Cat. No.: EK5F467

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Monocyte Chemotactic Protein 3 (MCP3) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse MCP3 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 Monocyte Chemotactic Protein 3 (MCP3).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	15.7-1000 pg/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

Monocyte chemoattractant protein 3, also known as C-C motif chemokine 7 (CCL7), is a chemotactic factor that attracts monocytes and eosinophils, but not neutrophils. It enhances monocyte anti-tumor activity. In mice, CCL7 has complex and diverse functions, including regulating inflammatory and immune responses and participating in various biological processes such as tumor progression, tissue repair, and vascular remodeling. CCL7 also plays a significant role in the tumor microenvironment. Research has shown that CCL7 promotes the recruitment and activation of tumor-associated macrophages (TAMs) by binding to its receptor CCR2, thereby increasing tumor invasiveness and metastasis. In mouse models of colorectal and pancreatic cancer, CCL7 facilitated tumor progression through CCR2.

Target/Biomarker	Mouse MCP3
Target Synonym	CCL7; FIC; MARC; NC28; MCP3; SCYA7; Chemokine C-C-Motif Ligand 7; Small Inducible Cytokine A7; Monocyte Chemoattractant Protein 3

Gene ID	20306
UniProt ID	Q03366

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

Kurzejamska, Ewa *et al.* "Effect of Chemokine (C-C Motif) Ligand 7 (CCL7) and Its Receptor (CCR2) Expression on Colorectal Cancer Behaviors." *International journal of molecular sciences* vol. 20,3 686. 5 Feb. 2019.

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.