CCL2 (MCP-1) Monoclonal Antibody (2H5), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2H5
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469220

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	-	3 Publications
Neutralization (Neu)	Assay-Dependent	2 Publications
Functional Assay (FN)	Assay-Dependent	1 Publication

Product Specific Information

Description: The 2H5 monoclonal antibody reacts with mouse, rat, and human monocyte chemoattractant protein-1 (MCP-1), also known as CCL2 and MCAF.

Applications Reported: The 2H5 antibody has been reported for use in ELISA, intracellular staining for flow cytometric analysis, and cytokine neutralization. .

Applications Tested: The Functional Grade purified 2H5 antibody has been tested by ELISA for verification of reactivity and by LAL assay for verification of low endotoxin. The 2H5 antibody has been published for use in vitro and in vivo for neutralization of MCP-1 activity.

Mouse MCP-1 ELISA: The biotinylated 2H5 antibody has been tested as the detection antibody in a sandwich ELISA for analysis of mouse MCP-1 in combination with the affinity purified 4E2/MCP (14-7091) antibody for capture and recombinant mouse MCP-1 as the standard. A suitable range of concentrations of this antibody for ELISA detection is 0.5-2.0 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 2000 pg/mL - 15 pg/mL should

be included in each ELISA plate.

Human MCP-1 ELISA: The biotinylated 2H5 antibody has been tested as the detection antibody in a sandwich ELISA for analysis of human MCP-1 in combination with the affinity purified 5D3-F7 (14-7099) antibody for capture and recombinant human MCP-1 as the standard. A suitable range of concentrations of this antibody for ELISA detection is 0.5-2.0 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 2000 pg/mL - 15 pg/mL should be included in each ELISA plate.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

9 References

Immunohistochemistry (1)

Journal of extracellular vesicles

Apoptotic vesicles restore liver macrophage homeostasis to counteract type 2 diabetes.

"Published figure using CCL2 (MCP-1) monoclonal antibody (Product # 16-7096-81) in Immunohistochemistry"

Authors: Zheng C,Sui B,Zhang X,Hu J,Chen J,Liu J,Wu D,Ye Q,Xiang L,Qiu X,Liu S,Deng Z,Zhou J,Liu S,Shi S,Jin Y

Year
2021

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Flow Cytometry (1)

Molecular medicine reports

Conditioned medium from umbilical cord mesenchymal stem cells induces migration and angiogenesis.

"Published figure using CCL2 (MCP-1) monoclonal antibody (Product # 16-7096-81) in Flow Cytometry"

Authors: Shen C,Lie P,Miao T,Yu M,Lu Q,Feng T,Li J,Zu T,Liu X,Li H

Year
2015

Species
Human

ELISA (3)

Journal of virology

Brain Invasion by Mouse Hepatitis Virus Depends on Impairment of Tight Junctions and Beta Interferon Production in Brain Microvascular Endothelial Cells.

"16-7096 was used in an ELISA assay to investigate how Coronaviruses exhibit the ability to cross the blood-brain barrier according to strain virulence."

Authors: Bleau C,Filliol A,Samson M,Lamontagne L

Year
2015

Species
Mouse

View more ELISA references on thermofisher.com

More applications with references on thermofisher.com

Neu (2) **FN (1)**

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