

CCL2 (MCP-1) Monoclonal Antibody (5D3-F7), eBioscience™

Product Details

Size	50 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	5D3-F7
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_468432

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	Assay-Dependent	1 Publication
ELISA (ELISA)	1-4 µg/mL	7 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Functional Assay (FN)	-	3 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

Description: The 5D3-F7 antibody reacts with human, cynomolgus, and rhesus monkey monocyte chemoattractant protein-1 (MCP-1), also known as monocyte chemotactic and activating factor (MCAF) and CCL2. MCP-1 is a CC chemokine which presents as a dimer. Derived from monocytes and vascular endothelial cells, it exerts chemoattractant activity on a variety of cell types, such as monocytes, basophils, T cells and NK cells via chemokine receptors such as CCR2, CCR5, and CCR10.

Applications Reported: The 5D3-F7 antibody has been reported to be useful for detection of MCP-1 in a sandwich ELISA, neutralization of MCP-1 bioactivity, intracellular staining for flow cytometric analysis, IP, and immunohistochemical staining of frozen tissue sections.

Applications Tested: The affinity purified 5D3-F7 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of human MCP-1 in combination with the biotinylated 2H5 (13-7096) antibody for detection and recombinant human MCP-1 as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 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.

The Functional Grade purified 5D3-F7 antibody has been tested for neutralization of MCP-1 bioactivity.

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

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

Filtration: 0.2 µm post-manufacturing filtered.

Western Blot (1)

<p>The Journal of biological chemistry</p> <p>Mucosal Administration of Collagen V Ameliorates the Atherosclerotic Plaque Burden by Inducing Interleukin 35-dependent Tolerance.</p> <p>"14-7099 was used in Western Blotting to determine whether induction of immune tolerance to col(V) might ameliorate atherosclerosis, providing further evidence for a causal role for col(V) autoimmunity in atherogenesis."</p> <p>Authors: Park AC,Huang G,Jankowska-Gan E,Massoudi D,Kernien JF,Vignali DA,Sullivan JA,Wilkes DS,Burlingham WJ,Greenspan DS</p>	<p>Year 2016</p> <p>Species Mouse</p>
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Immunohistochemistry (1)

<p>Clinical cancer research : an official journal of the American Association for Cancer Research</p> <p>Tumor cell-microenvironment interaction models coupled with clinical validation reveal CCL2 and SNCG as two predictors of colorectal cancer hepatic metastasis.</p> <p>"14-7099 was used in Immunohistochemistry to investigate novel biological markers to enable the prediction of colorectal cancer liver metastasis."</p> <p>Authors: Hu H,Sun L,Guo C,Liu Q,Zhou Z,Peng L,Pan J,Yu L,Lou J,Yang Z,Zhao P,Ran Y</p>	<p>Year 2009</p> <p>Species Human</p> <p>Dilution 1:50</p>
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Immunocytochemistry (1)

<p>The Journal of neuroscience : the official journal of the Society for Neuroscience</p> <p>Demyelination causes adult CNS progenitors to revert to an immature state and express immune cues that support their migration.</p> <p>"14-7099 was used in Immunohistochemistry on frozen tissues to investigate how oligodendrocyte progenitor cells become activated after demyelination and how this enables them to contribute to remyelination."</p> <p>Authors: Moyon S,Dubessy AL,Aigrot MS,Trotter M,Huang JK,Dauphinot L,Potier MC,Kerninon C,Melik Parsadaniantz S,Franklin RJ,Lubetzki C</p>	<p>Year 2015</p> <p>Species Human</p> <p>Dilution 1:100</p>
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Flow Cytometry (1)

<p>Arteriosclerosis, thrombosis, and vascular biology</p> <p>Protective Role for B-1b B Cells and IgM in Obesity-Associated Inflammation, Glucose Intolerance, and Insulin Resistance.</p> <p>"14-7099 was used in Flow cytometry/Cell sorting to investigate the role of B-cell functions in obesity-induced metabolic dysfunction."</p> <p>Authors: Harmon DB,Srikakulapu P,Kaplan JL,Oldham SN,McSkimming C,Garmey JC,Perry HM,Kirby JL,Prohaska TA,Gonen A,Hallowell P,Schirmer B,Tsimikas S,Taylor AM,Witztum JL,McNamara CA</p>	<p>Year 2016</p> <p>Species Mouse</p>
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More applications with references on thermofisher.com

- ELISA (7)
- FN (3)
- Misc (1)

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