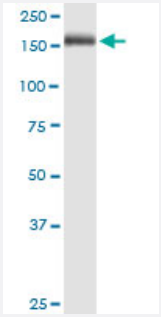
MRC1 monoclonal antibody (M02), clone 5C11

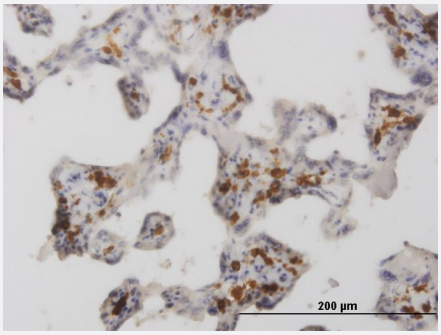
Catalog # H00004360-M02 Size 100 ug

Applications



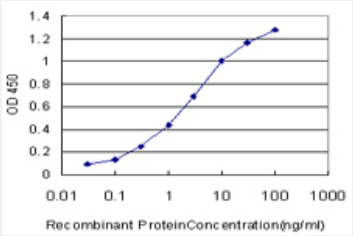
Western Blot (Tissue lysate)

MRC1 monoclonal antibody (M02), clone 5C11. Western Blot analysis of MRC1 expression in human pancreas.



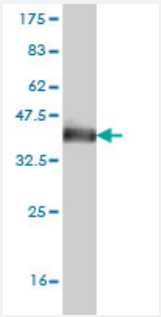
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to MRC1 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 1.5 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MRC1 is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.73 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant MRC1.
Immunogen	MRC1 (NP_002429, 22 a.a. ~ 130 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	TRQFLIYNEDHKRCVDAVSPSAVQTAACNQDAESQKFRWVSESQIMSVAFKLCLGVPSKTDWV AITLYACDSKSEFQKWECKNDTLLGIKGEDLFFNYGNRQEKNIMLY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (84); Rat (85)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

  MRC1 monoclonal antibody (M02), clone 5C11. Western Blot analysis of MRC1 expression in human pancreas.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunoperoxidase of monoclonal antibody to MRC1 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 1.5 ug/ml]

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  Protocol Download

- ELISA

Gene Info — MRC1

Entrez GeneID	4360
GeneBank Accession#	NM_002438
Protein Accession#	NP_002429
Gene Name	MRC1
Gene Alias	CD206, CLEC13D, MMR
Gene Description	mannose receptor, C type 1
Omim ID	153618
Gene Ontology	Hyperlink
Gene Summary	The recognition of complex carbohydrate structures on glycoproteins is an important part of several biological processes, including cell-cell recognition, serum glycoprotein turnover, and neutralization of pathogens. The protein encoded by this gene is a type I membrane receptor that mediates the endocytosis of glycoproteins by macrophages. The protein has been shown to bind high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi so that they can be neutralized by phagocytic engulfment. This gene is in close proximity to MRC1L1. The gene loci including this gene, MRC1L1, as well as LOC340843 and LOC340893, consist of two nearly identical, tandemly linked genomic regions, which are thought to be a part of a duplicated region. [provided by RefSeq

Other Designations	OTTHUMP00000019245|OTTHUMP00000045206|macrophage mannose receptor|mannose receptor C type 1

Publication Reference

- Multiomic spatial landscape of innate immune cells at human central nervous system borders.

  Roman Sankowski, Patrick Süß, Alexander Benkendorff, Chotima Böttcher, Camila Fernandez-Zapata, Chintan Chhatbar, Jonathan Cahueau, Gianni Monaco, Adrià Dalmau Gasull, Ashkan Khavaran, Jürgen Grauvogel, Christian Scheiwe, Mukesch Johannes Shah, Dieter Henrik Heiland, Oliver Schnell, Filiz Markfeld-Erol, Mirjam Kunze, Robert Zeiser, Josef Priller, Marco Prinz.

  Nature Medicine 2024 Jan; 30(1):186.

  Application: IF, Human, Human brain tissues, perivascular and leptomeningeal Y+ cells

- Post-COVID exercise intolerance is associated with capillary alterations and immune dysregulations in skeletal muscles.

  Tom Aschman, Emanuel Wyler, Oliver Baum, Andreas Hentschel, Rebekka Rust, Franziska Legler, Corinna Preusse, Lil Meyer-Arndt, Ivana Büttnerova, Alexandra Förster, Derya Cengiz, Luiz Gustavo Teixeira Alves, Julia Schneider, Claudia Kedor, Judith Bellmann-Strobl, Aminaa Sanchin, Hans-Hilmar Goebel, Markus Landthaler, Victor Corman, Andreas Roos, Frank L Heppner, Helena Radbruch, Friedemann Paul, Carmen Scheibenbogen, Nora F Dengler, Werner Stenzel.

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  Application: IHC, Human, Muscles

- Macrophage subpopulations in pediatric patients with lupus nephritis and other inflammatory diseases affecting the kidney.

  Mira Sandersfeld, Maike Büttner-Herold, Fulvia Ferrazzi, Kerstin Amann, Kerstin Benz, Christoph Daniel.

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  Application: IF, Human, Kidney

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  Takuma Mikami, Masato Furuhashi, Ryosuke Numaguchi, Itaru Hosaka, Akiko Sakai, Marenao Tanaka, Toshiro Ito, Toshiyuki Maeda, Taku Sakurada, Satoshi Muraki, Yousuke Yanase, Hiroshi Sato, Joji Fukada, Yukihiko Tamiya, Yutaka Iba, Nobuyoshi Kawaharada.

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  Application: IHC-P, Human, Human fat pads

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  Application: IHC, Human, Human decidual

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  Application: IF, Human, Human liver

- Specification of CNS macrophage subsets occurs postnatally in defined niches.

  Takahiro Masuda, Lukas Amann, Gianni Monaco, Roman Sankowski, Ori Staszewski, Martin Krueger, Francesca Del Gaudio, Liqun He, Neil Paterson, Elisa Nent, Francisco Fernández-Klett, Ayato Yamasaki, Maximilian Frosch, Maximilian Fliegauf, Lance Fredrick Pahutan Bosch, Hatice Ulupinar, Nora Hagemeyer, Dietmar Schreiner, Cayce Dorrier, Makoto Tsuda, Claudia Grothe, Anne Joutel, Richard Daneman, Christer Betsholtz, Urban Lendahl, Klaus-Peter Knobeloch, Tim Lämmermann, Josef Priller, Katrin Kierdorf, M

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  Application: IHC-P, Human, Human fetal brains

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  Cancer Immunology, Immunotherapy : CII 2022 Jun; 71(6):1331.

  Application: WB-Ce, Human, Human monocyte-derived macrophages

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  Application: IHC-P, Human, Human papillary thyroid carcinoma

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  Eiichi Oba, Naing Ye Aung, Rintaro Ohe, Mitsuaki Sadahiro, Mitsunori Yamakawa.

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  Application: IHC, Human, Aortic valve

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  Application: IHC-P, IF, Human, Oral squamous cell carcinoma

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  Application: IHC, Human, Brain

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  Application: IHC, Human, Oral squamous cell carcinomas

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  Application: IHC, Human, Human apical granuloma

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  Application: IHC, IF, Human, Monkey, Brain

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  Application: IHC-P, Human, Oral squamous cell carcinoma

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  Application: IHC, Human, Gallbladder

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  Application: IHC-P, Human, Epicardial adipose tissue

Disease

- Alzheimer Disease
- Asthma
- Colorectal Neoplasms
- Genetic Predisposition to Disease
- Leprosy
- Sarcoidosis