10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MRC1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant MRC1.
Catalog # AT2899a

Product Information

Application	WB, IHC, E
Primary Accession	P22897
Other Accession	NM_002438
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	5C11
Calculated MW	166012

Additional Information

Gene ID	4360
Other Names	Macrophage mannose receptor 1, MMR, C-type lectin domain family 13 member D, C-type lectin domain family 13 member D-like, Macrophage mannose receptor 1-like protein 1, CD206, MRC1, CLEC13D, CLEC13DL, MRC1L1
Target/Specificity	MRC1 (NP_002429, 22 a.a. ~ 130 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MRC1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

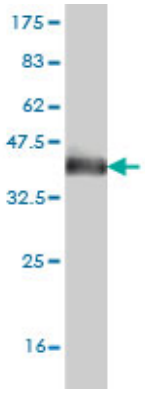
Background

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.

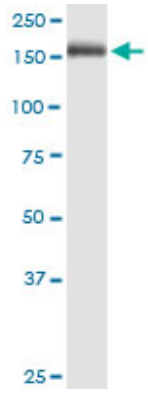
References

1.Increased malignancy of oral squamous cell carcinomas (oscc) is associated with macrophage polarization in regional lymph nodes - an immunohistochemical study.Wehrhan F, Buttner-Herold M, Hyckel P, Moebius P, Preidl R, Distel L, Ries J, Amann K, Schmitt C, Neukam FW, Weber MBMC Cancer. 2014 Jul 21;14:522. doi: 10.1186/1471-2407-14-522.2.Alternative activation of laser-captured murine hemophagocytes.Canna SW, Costa-Reis P, Bernal WE, Chu N, Sullivan KE, Paessler ME, Behrens EMArthritis Rheumatol. 2014 Jan 27. doi: 10.1002/art.38379.3.Small oral squamous cell carcinomas with nodal lymphogenic metastasis show increased infiltration of M2 polarized macrophages - an immunohistochemical analysis.Weber M, Buttner-Herold M, Hyckel P, Moebius P, Distel L, Ries J, Amann K, Neukam FW, Wehrhan F.Journal of Cranio-Maxillofacial Surgery(2014), doi: 10.1016/j.jcms.2014.01.035.4.Xanthogranulomatous cholecystitis: A clinicopathological study of its association with gallbladder carcinoma.Zhuang PY, Zhu MJ, Wang JD, Zhou XP, Quan ZW, Shen J.J Dig Dis. 2012 Sep 21. doi: 10.1111/j.1751-2980.2012.00645.x. [Epub ahead of print5.Coronary Atherosclerosis Is Associated With Macrophage Polarization in Epicardial Adipose Tissue.Hirata Y, Tabata M, Kurobe H, Motoki T, Akaike M, Nishio C, Higashida M, Mikasa H, Nakaya Y, Takanashi S, Igarashi T, Kitagawa T, Sata M.J Am Coll Cardiol. 2011 Jul 12;58(3):248-55.

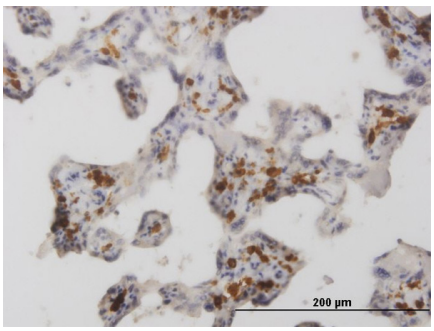
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .

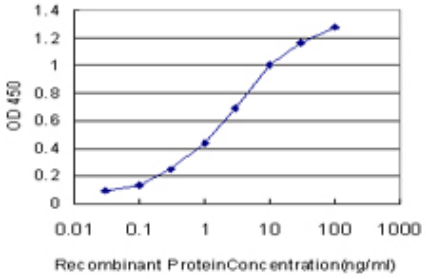


MRC1 monoclonal antibody (M02), clone 5C11. Western Blot analysis of MRC1 expression in human pancreas.



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

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



Citations

- Characterizing the immune microenvironment in high-risk ductal carcinoma in situ of the breast.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.