

Active Recombinant Human MRC1 Protein, His tagged, Biotinylated

Cat. No. MRC1-11190H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human CD206 Protein, His Tag, primary amine labeling is expressed from human 293 cells (HEK293). It contains AA Leu 19-Ala 1389 (Accession # P22897-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Leu 19
Species	Human
Source	HEK293
ProteinLength	19-1389 aa
Conjugation/Label	Biotin
Description	Mrc1 is a conserved checkpoint mediator protein that transduces the replication stress signal to the downstream effector kinase. Mrc1 and its vertebrate homologue Claspin serve as a mediator for replication stress checkpoint signaling, receiving the signal from Mec1/Rad3/ATR sensor kinase and transmitting it to the effector Rad53/Cds1/Chk1 kinase. The loss of mrc1 checkpoint activity results in the aberrant activation of late/dormant origins in the presence of hydroxyurea. Tumor-associated macrophages (TAMs) expressing the multi-ligand endocytic receptor mannose receptor (CD206/MRC1) contribute to tumor immunosuppression, angiogenesis, metastasis, and relapse.
Form	Lyophilized from 0.22

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	µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Specificity	Protein Ratio: Passed as determined by the HABA assay/binding ELISA.
Bio-activity	Immobilized Mannan from <i>Saccharomyces cerevisiae</i> at 20 µg/mL (100 µL/well) can bind Biotinylated Human CD206 Protein, His Tag, primary amine labeling with a linear range of 0.156-2.5 µg/mL.
Molecular Mass	The protein has a calculated MW of 158.6 kDa. The protein migrates as 170-210 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	MRC1 mannose receptor, C type 1 [<i>Homo sapiens</i> (human)]
Official Symbol	MRC1
Synonyms	MRC1; mannose receptor, C type 1; mannose receptor, C type 1 like 1, MRC1L1; macrophage mannose receptor 1; bA541I19.1; CD206; CLEC13D; CLEC13DL; mannose receptor, C type 1-like 1; C-type lectin domain family 13 member D;

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macrophage mannose receptor 1-like protein 1; MMR; MRC1L1; MGC181940;

Gene ID 4360**mRNA Refseq** NM_002438**Protein Refseq** NP_002429**MIM** 153618**UniProt ID** P22897 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA