Active Recombinant Human MRC1 Protein, His-tagged

Cat. No. MRC1-30H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD206, His Tag 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
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 μm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Mannan from Saccharomyces cerevisiae at 20 μg/mL (100 μL/well) can bind Human CD206, His Tag with a linear range of 0.156-2.5 μg/mL.

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Molecular Mass	The protein has a calculated MW of 158.6 kDa. The protein migrates as 150-190 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >95% 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 [Homo sapiens]
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; macrophage mannose receptor 1-like protein 1; MMR; MRC1L1; MGC181940;
Gene ID	4360
mRNA Refseq	NM_002438

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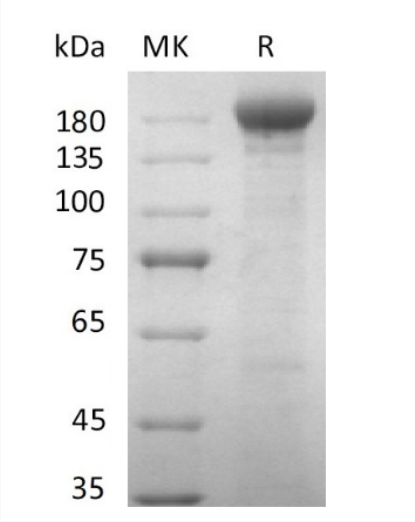
Protein Refseq	NP_002429
MIM	153618
UniProt ID	P22897
SDS-PAGE.	

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