Active Recombinant Mouse Mrc1 Protein, His Tagged

Cat. No. Mrc1-11202M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse CD206 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 20-Ala 1388 (Accession # Q61830). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Leu 20
Species	Mouse
Source	HEK293
ProteinLength	20-1388 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 Mouse CD206 Protein, His Tag with a linear range of 0.078-1.25 μg/mL.

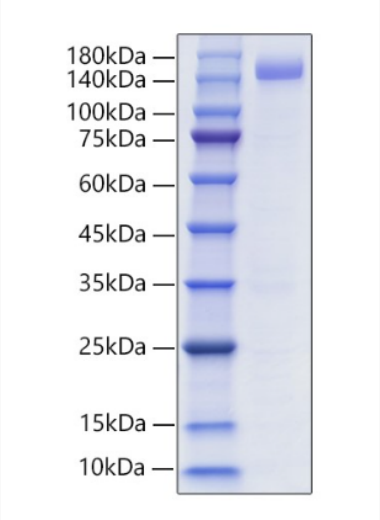
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Molecular Mass	The protein has a calculated MW of 157.3 kDa. The protein migrates as 150-180 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >95% as determined by SEC-HPLC.
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 [Mus musculus (house mouse)]
Official Symbol	Mrc1
Synonyms	MRC1; mannose receptor, C type 1; macrophage mannose receptor 1; MMR; MR; CD206; AW259686;
Gene ID	17533
mRNA Refseq	NM_008625
Protein Refseq	NP_032651

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UniProt ID	Q61830
SDS-PAGE	

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