

Active Recombinant Cynomolgus MRC1 Protein, His Tagged

Cat. No. MRC1-11180C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus CD206 Protein, His Tag is expressed from human 293 cells (HEK293). This protein carries a polyhistidine tag at the C-terminus.
Species	Cynomolgus
Source	HEK293
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 at 20 µg/mL (100 µL/well) can bind Cynomolgus CD206 Protein, His Tag with a linear range of 0.039-1.25 µg/mL.
Molecular Mass	The protein has a calculated MW of 158.5 kDa. The protein migrates as 160 kDa and >180 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under

 Tel: 1-631-559-9269 1-516-512-3133

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	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. >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>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	MRC1
Synonyms	MRC1; mannose receptor C-type 1; macrophage mannose receptor 1
Gene ID	101925909
mRNA Refseq	XM_005564743
Protein Refseq	XP_005564800
UniProt ID	A0A2K5TN91

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