Recombinant Human MBL2 protein, His-tagged

Cat. No. MBL2-233H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MBL2 (Glu21-Ile248) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Glu21-Ile248
Description	Mannose-binding lectin (MBL) is also known as mannose-binding protein, mannan-binding protein (MBP), Mannose-binding protein C, Collectin-1 (COLEC1), MBL2, which belongs to the class of collectins in the C-type lectin superfamily. MBL contains one C-type lectin domain and one collagen-like domain. MBL has an oligomeric structure (400-700 kDa), built of subunits that contain three presumably identical peptide chains of about 30 kDa each. MBL is calcium-dependent lectin involved in innate immune defense. MBL binds mannose, fucose and N-acetylglucosamine on different microorganisms and activates the lectin complement pathway. MBL binds to late apoptotic cells. MBL may bind DNA.
Predicted N Terminal	Glu21
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 24.8 kDa. The protein migrates as 30-33 kDa under reducing (R) condition (SDS-PAGE).

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

Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. 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.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	MBL2
Official Symbol	MBL2
Synonyms	MBL2; mannose-binding lectin (protein C) 2, soluble; mannose binding lectin (protein C) 2, soluble (opsonic defect) , MBL; mannose-binding protein C; COLEC1; collectin-1; mannan-binding lectin; mannose-binding lectin 2, soluble (opsonic defect); mannose-binding lectin (protein C) 2, soluble (opsonic defect); MBL; MBP; MBP1; MBL2D; MBP-C; HSMBPC; MGC116832; MGC116833
Gene ID	4153
mRNA Refseq	NM_000242
Protein Refseq	NP_000233

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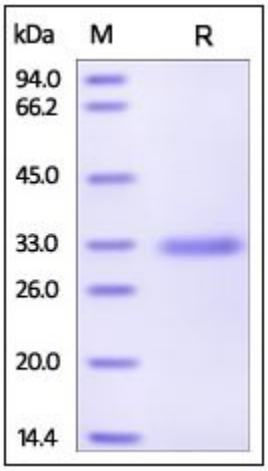
MIM	154545
UniProt ID	P11226
SDS-PAGE of MBL2-233H	 Human MBL, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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