



# Recombinant Protein Technical Manual

## Recombinant Mouse MBL2/MBP-C Protein

RPES2254

### Product Data:

**Product SKU:** RPES2254

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q3UEK1

### Protein Information:

**Molecular Mass:** 24.0 kDa

**AP Molecular Mass:** 28 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Mannose binding lectin (C); isoform CRA\_b; Mannose-binding protein C; Mbl2; MBL-2; Mannose Binding Lectin 2

## Immunogen Information:

**Sequence:** Glu19-Asp244

## Background:

Mannose-binding Lectin (MBL) is an acute phase protein bearing to the family of collectins produced by the liver as a monomer that forms a triple helix. Once released in serum, it further polymerizes forming dimers to octamers. The degree of serum polymerization is critical for the biological activity of MBL. MBL has higher affinity to microbial polysaccharides or their glycoconjugates. MBL was shown earlier to bind cell surfaces of bacteria, fungi, protozoa and viruses and acts as an acute-phase plasma protein (APP) during infection and inflammation. MBL activates the lectin-complement pathway, promotes opsonophagocytosis and modulates inflammation.