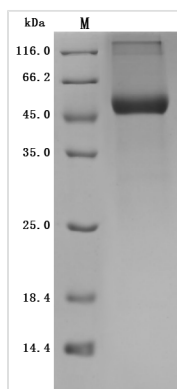


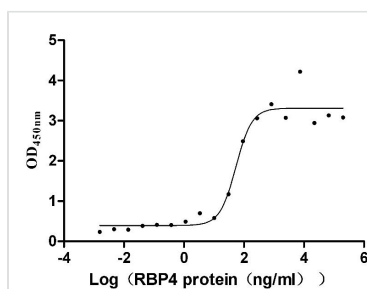


Recombinant Mouse Retinol-binding protein 4 (Rbp4) (Active)

Product Code	CSB-MP4018MO
Abbreviation	Recombinant Mouse Rbp4 protein (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q00724
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse Ttr (CSB-MP025270MO) at 5 µg/mL can bind Mouse Rbp4, the EC ₅₀ is 38.07-75.83 ng/mL.
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	ERDCRVSSFRVKENFDKARFSGLWYAIKKDPEGLFLQDNIIAEFSVDEKGHM SATAKGRVRLLSNWEVCADMVGTFTDTPAKFKMKYWGVSFLQRGNDH WIIDTDYDTFALQYSCRLQNLDTGTCADSYSFVFSRDPNGLSPETRRLVRQRQE ELCLERQYRWIEHNGYCQSRPSRNSL
Source	Mammalian cell
Target Names	Rbp4
Expression Region	19-201aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal hFc1-tagged
Mol. Weight	50.3 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse Ttr (CSB-MP025270MO) at 5 µg/ml can bind Mouse Rbp4, the EC₅₀ is 38.07-75.83 ng/mL.

Description

This Mouse Rbp4 recombinant protein was produced in mammalian cell, where the gene sequence encoding mouse Rbp4 (19-201aa.) was expressed with the C-terminal hFc tag. The purity of this Rbp4 protein was greater than 90% by SDS-PAGE. Its activity was measured by its binding ability in a functional ELISA.

Retinol Binding Protein 4 (RBP4) is the carrier of retinol in the blood. It belongs to the lipocalin family and contains a 21 kD protein with a retinol binding site. RBP4 is the most important extracellular transporter, responsible for binding and transporting retinol in the blood. Adipose, kidney, testis, brain and digestive tract tissues can all synthesize and secrete RBP4. But under normal physiological conditions the main source of this protein is the liver. Many studies have found that RBP4 plays an important role in obesity, insulin resistance, metabolic syndrome, hypertension and atherosclerosis, and is expected to provide important clues for the pathogenesis and therapeutic targets of related diseases.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.