Recombinant RBP4 Monoclonal Antibody

catalog number: AN300486P

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Mouse
Immunogen	Recombinant Mouse RBP4 protein
Host	Rabbit
Isotype	IgG
Clone	7C1
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

Applications

Applications	Recommended Dilution
WB	1:500-1:1000

Data

Western Blot with RBP4 Monoclonal Antibody at dilution of
1:500 dilution. Lane A: HepG2 Whole Cell Lysate,
Lysates/proteins at 30 μg per lane.
Observed-MW:23 kDa
Calculated-MW:23 kDa

Preparation & Storage

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

Retinol-binding protein 4 (RBP4) is the specific carrier for retinol (also known as vitamin A), and is responsible for the conversion of unstable and insoluble retinol in aqueous solution into stable and soluble complex in plasma through their tight interaction. As a member of the lipocalin superfamily, RBP4 containing a β-barrel structure with a well-defined cavity is secreted from the liver, and in turn delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP4-retinol complex interacts with transthyretin (TTR), and this binding is crucial for preventing RBP4 excretion through the kidney glomeruli. RBP4 expressed from an ectopic source efficiently delivers retinol to the eyes, and its deficiency affects night vision largely. Recently, RBP4 as an adipokine, is found to be expressed in adipose tissue and correlated with obesity, insulin resistance (IR) and type 2 diabetes (T2DM).

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